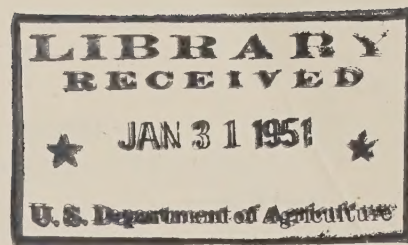


## **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.







FERN EDWARDS  
(See page 38)

... **1951** ...

# SUNNYSLOPE **M** UM GARDENS

8226 East Huntington Drive :-: SAN GABRIEL, CALIF.

Telephone ATLantic 2-1364

CHRYSANTHEMUM PLANTS: April to July

CARNATION PLANTS: All Year Around



# TERMS OF SALE

**IMPORTANT!—PLEASE READ CAREFULLY BEFORE ORDERING**

**(This Cancels All Previous Catalogs and Quotations)**

**QUOTATIONS.** All prices quoted in this catalog are for **Rooted Cuttings** on Chrysanthemum plants and young established plants in 2-inch PLANT BANDS on Carnations which are all F.O.B. San Gabriel, California. Remittance must accompany all mail orders with adequate postage charges included. A combination computation of weight and postage charge schedules for both air and ordinary parcel posts appear below. We also offer Chrysanthemum plants in 2-inch plant bands at 25% above the rooted cutting price. (Exception: Those calling for plants at our gardens will be given plants in plant band without the extra charge.) In addition, we offer larger plants in pots, both carnations and Chrysanthemums, during their respective blooming season at our Gardens at advanced prices. No C.O.D. order is accepted. 3% sales tax must be added to all deliveries made within the State of California.

**ACKNOWLEDGMENT OF ORDERS.** Unless we are able to fill orders immediately, we send acknowledgments within a few days after receipt of order informing our customers when their shipment may be expected. If you do not hear from us within a reasonable time, please write us.

**TIME OF SHIPMENT.** We fill orders for Chrysanthemums from about April 10 through May and June to mid-July. We can fill orders to warmer Southern areas as early as April 1 or little before if we are allowed to make substitutions or back order whatever is not ready.

**Carnation plants are shipped in plant band throughout entire year.**

**ORDERS FILLED.** All orders will receive our special attention. Though we endeavor to fill orders on or near the date specified on the "Order Sheet," we always appreciate early orders giving us a great amount of leeway regarding time of shipment. In case the stock of a certain variety is exhausted, we will substitute varieties as good or better without additional cost unless an order is marked "NO SUBSTITUTION."

**SHIPPING INFORMATION.** Shipping instructions should be indicated on all orders. Rooted Chrysanthemum cuttings are shipped via Parcel Post, Air Parcel Post, Air Express charges collect, or Railway Express transportation charges collect.

**OUR EXPERIENCE OF PAST SEASONS CLEARLY**

INDICATE THAT AIR PARCEL POST IS THE BEST MEDIUM OF CARRIER FOR CHRYSANTHEMUM ROOTED CUTTINGS ESPECIALLY TO DESTINATIONS BEYOND THE POSTAL ZONE NUMBER 4. Parcels shipped to non-airport cities will be forwarded by surface transportation from nearest airport city.

**POSTAGE CHARGE ADJUSTMENT.** Adjustment of overpayment of Air Parcel Post charges will be made either in plants at time of shipment or later in stamps or by check. All underpayment of postage will be billed.

**SPECIAL DELIVERY SERVICE.** To customers in urban communities where this service is available, we stress usage of this, as it would greatly expedite delivery. The rate is 25c up to 2 lbs., 35c to 51 lbs., and 45c to 70 lbs., which must be added to the basic postage.

**SHIPMENT OF BANDED PLANTS.** As previously mentioned, all carnation plants are banded. Each banded plant is computed at 12 ounces. For this reason, Express service is preferred for shipment of over 15 Carnation plants and banded Chrysanthemums. Carrier charges for Express shipments are sent collect.

**PACKING CHARGE:** OWING TO INCREASED COST OF PACKING MATERIAL AND LABOR, WE ARE COMPELLED TO MAKE A CHARGE OF 35c for packing orders less than \$2.00.

**SHIPPING NOTICE:** Separate shipping notice is sent on the date the order is filled. Air Parcel Post shipment notices are sent by air mail.

**ADJUSTMENTS:** All plants are carefully labeled and securely packed before leaving our Nursery. An invoice accompanies each shipment. If found unsatisfactory upon arrival, please notify us immediately. No adjustment will be made later than 15 days after arrival. When adjustment is made via Air Parcel Post, the actual amount of postage will be charged to the customer.

**NON-GUARANTY.** While we exercise utmost care in executing all orders to keep our stock true to name, we give no warranty, expressed or implied, and cannot guarantee to be in any way responsible for the crop, either to variety or product. Our liability, in all cases, is limited to the purchase price of the plants. All orders are accepted on the above terms and not subject to return.

## AIR PARCEL POST RATES ZONES

NUMBER OF ROOTED CUTTINGS	Weight in Pounds	1, 2 and 3	4	5	6	7	8
1-16	1	0.60	0.65	0.70	0.75	0.75	0.80
17-32	2	1.08	1.15	1.26	1.39	1.47	1.60
32-54	3	1.56	1.65	1.82	2.03	2.19	2.40
55-75	4	2.04	2.15	2.38	2.67	2.91	3.20
76-95	5	2.52	2.65	2.94	3.31	3.63	4.00

## PARCEL POST RATES ZONES

NUMBER OF ROOTED CUTTINGS	0.75 Weight in Pounds	1-2 Up to 150 Miles	3 150 to 300 Miles	4 300 to 600 Miles	5 600 to 1,000 Miles	6 1,000 to 1,400 Miles	7 1,400 to 1,800 Miles	8 Over 1,800 Miles
1-12	1	.12	.13	.14	.15	.16	.17	.18
13-24	2	.15	.16	.19	.21	.24	.27	.30
25-36	3	.17	.19	.23	.27	.31	.36	.41
37-48	4	.19	.22	.28	.33	.39	.46	.53
49-60	5	.21	.25	.32	.39	.46	.55	.64

Please note that the computation difference in the number of plants exists between Air and Ordinary Parcel Post because we use lighter packing material for Air Parcels. Consult your local Post Office for further information.



*With Great Pride . . . .*

## **Sunnyslope Presents the Following Introductions for 1951**



**ANNE**

**ANNE.** (S 49-2). Purest white spidery flower in the larger size tabulated petal class. In full bloom by October 1. As if to herald the prelude of our famous Annual Chrysanthemum Show, this new flower stood out majestically on the opening day last fall. Being extremely full centered, it appeared to develop layer upon layer of petals almost without end. The ultimate product was a magnificently large and beautiful flower whose gracefulness is beyond description. Height about 3 feet. **Price: \$1.00 each, \$10.00 per dozen.** (Illustration is above.)

**AUTUMN PARADE.** (S 49-9). Most fascinating flower composed of two distinct forms of petals. Approximately one-half of the flower, which is the outer part, consists of the conventional long, tabulated petals with fishhooks while the remaining central part is completed with spoon petals of variable sizes, some of which appear almost feathery in their formation. Color is deep bronze throughout the flower with spoon openings of bright red. Height about 4 feet. Normal date of maturity about October 15. **Price: \$1.00 each, \$10.00 per dozen.** (Color illustration page 4.)

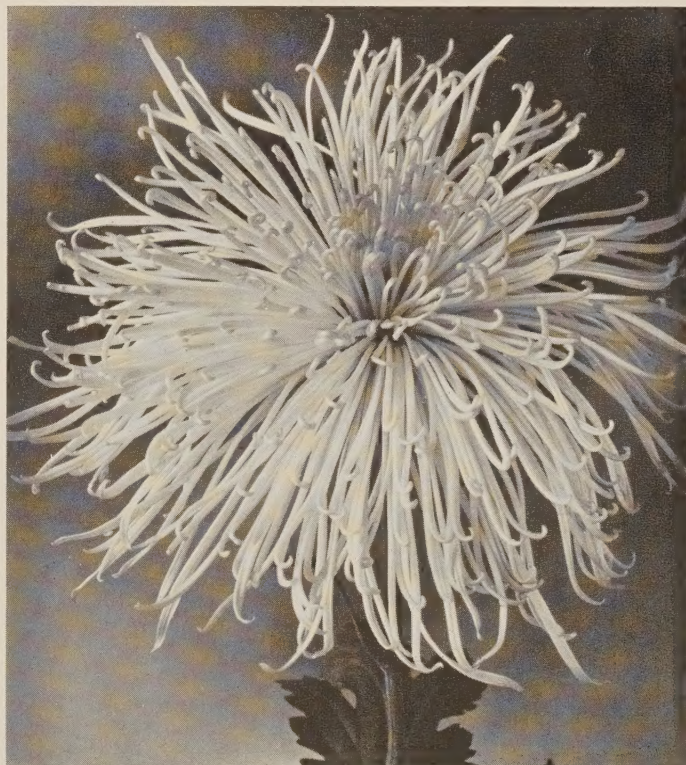
**CENTENNIAL.** (S 49-18). A true spidery type of golden bronze. Has slender, long tabulated petals with spoon openings tipped with fishhooks. Has superb lasting quality resulting from exceedingly full centered character of this flower. Height, 4 feet. October 22. **Price: \$1.00 each, \$10.00 per dozen.** (Color illustration page 5.)

**DELIGHT.** (49-5). This most intriguing variety of thin threadlike petalled spidery flower is creamy white with pointed tips of green. Flower that is unique in appearance and outstanding in character—one that will be remembered long after the blooming season is over. Height, medium. In full bloom October 15. **Price: \$1.00 each, \$10.00 per dozen.** (Illustration below.)

**EL MONTE.** A new chrysanthemum of dwarf nature which is ideal for pot culture. Selection of this name was made by the El Monte Womens' Club members during their visit to our Gardens. The color is a beautiful terra-cotta red bordering to a rich golden bronze. Produces 8 to 12 six-inch diameter semi-incurved blooms when disbudded. November 10. **Price: 50 cents each, \$5.00 per dozen.**

**LYRIC.** (S-49-8). "A deep orchid pink Rayonante" is the best description of this beautiful flower. The medium size cord-like petals extend outward from a full center. Has glossy dark green foliage. Height medium. October 15. **Price: \$1.00 each, \$10.00 per dozen.** (Illustration page 4.)

**RONDO.** (49-2). A snow white decorative flower. Petals are flat and feathery. Should be disbudded in a bush but not as large as mums. Height medium. In full bloom by October 15. **Price: 50 cents each, \$5.00 per dozen.** (See illustration page 4.)



**DELIGHT**





**AUTUMN PARADE**



**SUNNYSLOPE SPLENDOR**

**SUNNYSLOPE SPLENDOR.** (49-1). It is generally theorized that the ratio of obtaining outstanding varieties from chrysanthemum seeds is 6 to every 10,000 and we would unhesitatingly place this variety at the top of the selected six. It is a glistening white full centered flower with a light overcast of green throughout but deeper at the center. Composed of spoon petals cupped slightly inward at the tip. Perfectly formed, we have not noticed a single deformed flower in our trial ground where 4 to 6 blooms were grown to a plant, all measuring eight inches in diameter. We believe this variety will rule supreme both as exhibition and as com-

mercial cut flowers for many years to come in this class. Fully matured by October 10-15. Height 5 feet. **Price: \$1.00 each, \$10.00 per dozen.** (Illustration above.)

**YELLOW FRILL.** (49-3). Semi-double spidery flower in clear yellow. Petals are long and tightly curled at the tip. The large button appearing at maturity only accentuates the beauty of this flower all the more. Height tall. October 15. **Price: \$1.00 each, \$10.00 per dozen.** (Illustration page 5.)



**RONDO**



**LYRIC**





CENTENNIAL



YELLOW FRILL

## Spidery (Fuji Mum) Threadlike Varieties

*Varieties listed in this group, which are sometimes referred to as "Fuji" Mums by the commercial growers, have quilled petals of varying sizes, some of which are long and cord-like, while a great majority have opening of spoon shape at the tip, either fishhooked or plain. These petals either spring out horizontally or droop. Many of these flowers may be eccentric in form, but they are all very graceful. Descriptions were taken from flowers which were disbudded to one bloom per stem with four to six flowers to a plant. The terminal buds were preferred.*

### PRICE OF ROOTED CUTTINGS (Unless Quoted Otherwise)

Each .....	\$ .30
3 of One Name.....	.85
6 of One Name.....	1.50
12 of One Name.....	3.00

**AGNES.** The quilled petals of this beautiful light orchid pink spidery flower open at the tip, curling ribbonlike and showing to good advantage the attenuated barbs on fishhook tips. Has good foliage and stems. Height tall. November 10. (Illustration page 6.)

**ALBERT WITT.** A clear yellow sport of "Bess Witt." Like its parent, this variety has luxuriant foliage and a vigorous growing habit. Height medium. October 10. (Refer to illustration of "Bess Witt," on page 9.)

**ALICE TASHIMA.** Full centered spidery variety in white. Has larger size quilled petals with hooked tips. Good stems and foliage. Height medium. October 10. (Illustration page 6.)

**ARCTIC.** Outstanding true spider in purest white. Fully double at the center and the tubulated petals with fishhooks cascade gracefully as in the illustration on page 6. Height medium. October 15.

**BERTHA OLIVER.** The medium size quilled petals of this flower are deep orchid pink. The fishhook tips open wide, displaying the deep rose color within. Height medium. October 15. (Color illustration on page 9.)

**BESS WITT.** Unusually beautiful sport of "Peggy Ann Hoover." A pleasing combination of apricot bronze and salmon pink. Height medium. October 10. (Color illustration on page 9.)

**BLANCA.** Outstanding and distinctively beautiful spidery flower in pure white. Fully double with long and graceful petals. Height tall. November 15.

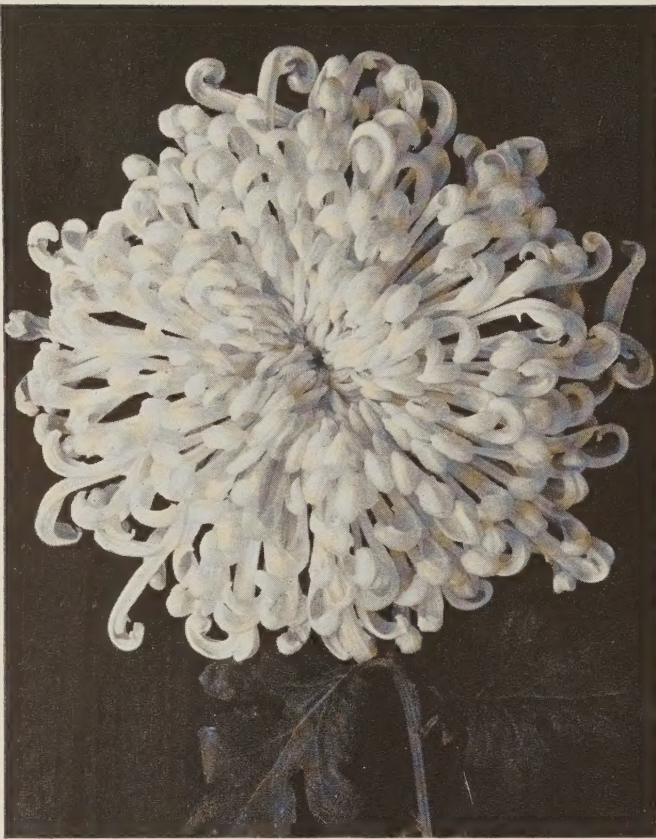
**BUNBU.** Large size tubulated petals of this lovely flower with fishhook tips are orchid lavender. Splendid commercial cut flower variety noted for its sturdy stem and fine foliage. Height medium. November 1. (Color illustration page 8.)

**CATHAY.** Quilled petals of this flower are a most beautiful shade of old copper with spoon tips of brilliant red. The evenly spaced petals expand horizontally instead of drooping. Has thick foliage and good stem. Height medium. November 1. (Illustration page 6.)

**CELESTIAL BEAUTY.** "The quilled petals are amaranth with the spoon tips opening to a stunning shade of dubonnet . . .", is the color description by its disseminator. Flower is exceptionally large. Height tall. November 5. **Price: 50 cents each, \$5.00 per dozen.**

**CHOPSTICK.** The broad spoon tips of this full centered quilled type flower are rich henna-red and the tubulated portion is golden bronze. A very satisfactory variety. Height medium. October 25.





**ALICE TASHIMA**



**AGNES**

**COPPER ROCKET.** The coppery bronze quilled, cord-like petals of this most intriguing flower expand outward into a most graceful formation. The flower is of good substance, retaining both its color and shape for a long time. Has lovely foliage and sturdy stem. Height medium. November 5. **Price: 50 cents each, \$5.00 per dozen.** (See illustration on page 7.)

**DAINTY WHITE.** This flower is most appropriately named. Dainty slender quilled petals of this lovely spidery flower droop gracefully. Medium height. November 1. (Illustration page 7.)

**EMERALD ISLE.** As its name suggests, the predominant color of this flower is green with an undertone of creamy white. When reaching maturity, the color undergoes a change to a beautiful white except for the tips and the center of the flowers, where the greenish shade is maintained for the longest time. The slender cord-like



**ARCTIC**



**CATHAY**





**COPPER ROCKET**

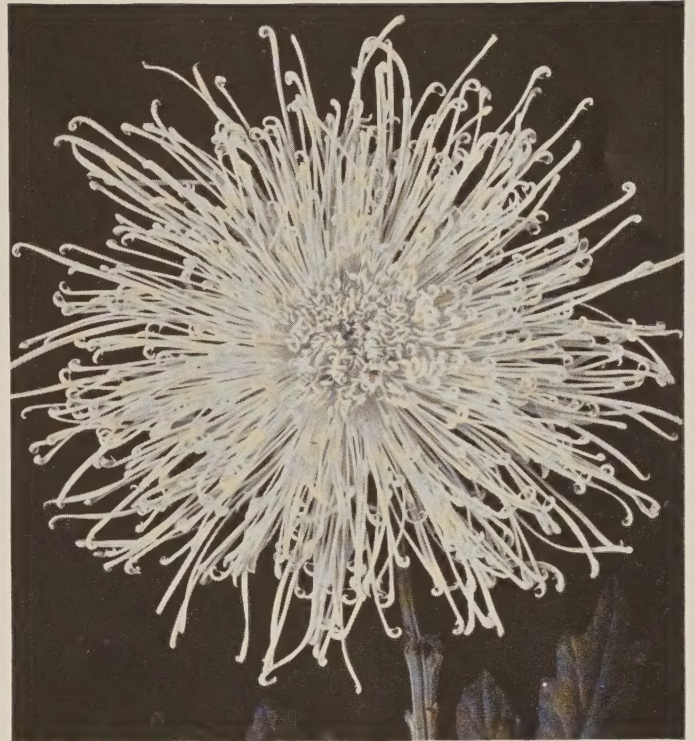
petals are very long as appearing in the illustration on page 8. Height medium. Matures November 1. **Price: 75 cents each, \$7.50 per dozen.**

**GEORGINA HEDINGER.** This full centered spidery flower of a beautiful shade of pink ranks the highest among the early flowering varieties in this class. A distinctive flower in every respect. Height medium. Oct. 1. (Color illustration on page 9.)

**ITO PINK.** A full centered flower with long quilled petals of good substance; most popular with the commercial cut flower growers. A clear medium orchid pink throughout but lighter along the edge. Height medium. October 30.



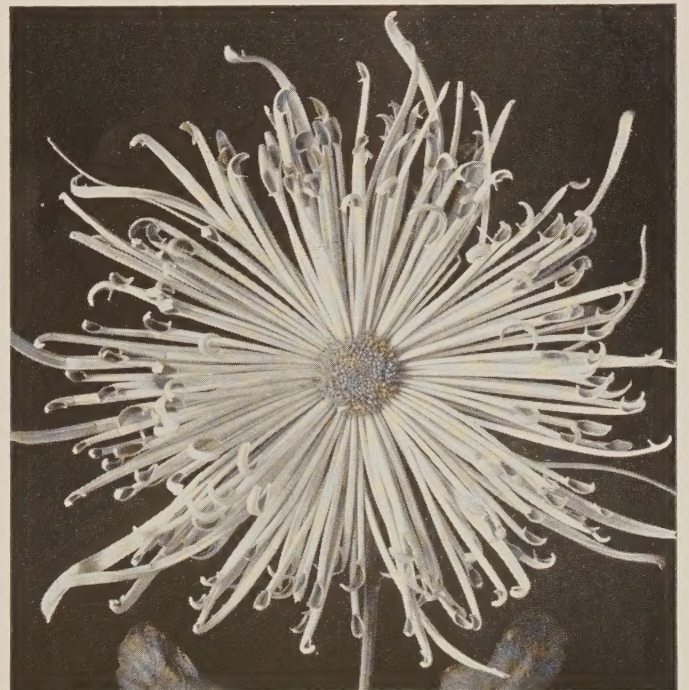
**JEAN RANGER**



**DAINTY WHITE**

**JEAN RANGER.** The shape and color of this flower is similar to "Ito Pink." Full centered and very large when disbudded properly. Has stiff stem and broad healthy foliage. Height tall. November 10. **Price: 75 cents each, \$7.50 per dozen.** (Illustration below.)

**JEAN SQUIRE.** Long tubulated spoon-tipped petals of this flower stretch out horizontally from a central yellow button. Lovely shade of rose pink throughout. Dark green foliage and exceptionally strong stem makes this a fine commercial cut flower variety. Height medium. November 1. (Illustration below.)



**JEAN SQUIRE**





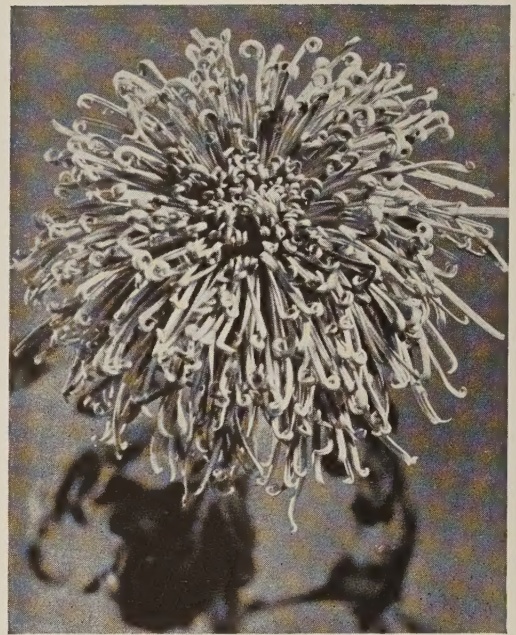
**EMERALD ISLE**

**LADY BIRD.** Probably this is the most slender threadlike spidery variety we carry in our collection. Medium orchid pink throughout. Noted for its early flowering quality. Height medium. October 5. **Price: 50 cents each, \$5.00 per dozen.**

**LORRAINE.** We recommend this variety without any reservation because we believe this is THE most outstanding spidery mum in the yellow class. Top blue ribbon winner at every Chrysanthemum show. Sturdy stem



**MARSHA**



**MITSUKO**

and healthy green foliage are a few of the favorable points of this wonderful variety. Height tall. November 1. **Price: 50 cents each, \$5.00 per dozen.** (Color illustration page 12.)

**MAMORU.** A light orange shading into deeper bronze toward the center. An excellent cut flower variety as it keeps well after being cut and has good stem and foliage. Height medium. October 20. (Illustrated in color on page 12.)



**BUNBU**





Top: Georgina Hedinger. Upper left: Maria. Upper right: Bess Witt. Lower left: Paul Miller. Center: Sarah Morasch.  
Lower right: Bertha Oliver. Bottom: Melody.



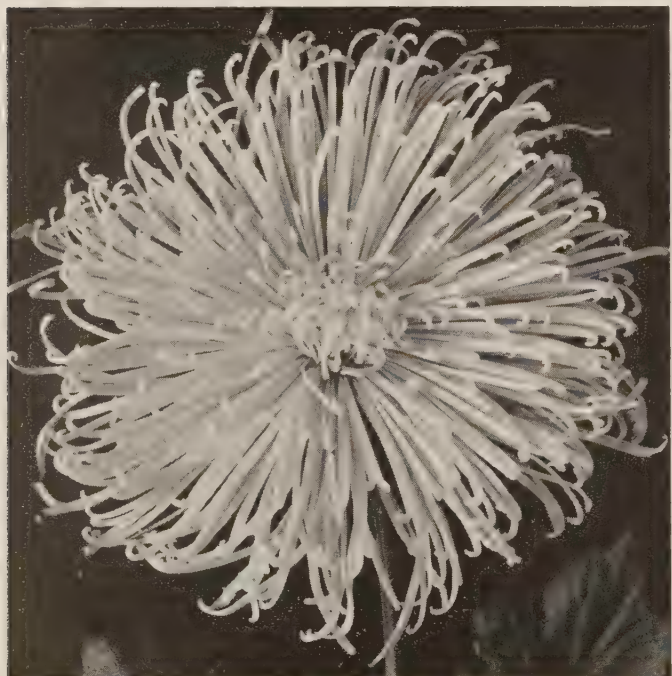


**MRS. STANLEY WALLACE**

**MARIA.** A most satisfactory spidery variety. Predominantly a creamy white throughout but is also suffused with a faint pink shade when it first opens and overlaid generally with chartreuse at the tip. Has sturdy stems and good foliage. In addition, this variety is easy to grow. Tall grower. October 25. (Color illustration on page 9.)

**MARSHA.** Popularity of this pure white spidery flower seems to increase each year at our mum show. It is not only the immensity of this flower which seems to draw the attention, but also its distinctive gracefulness that appears to captivate the favor of the general public. Medium height. November 1. **Price: 50 cents each, \$5.00 per dozen.** (Illustration page 8.)

**MAUVE.** Wine red spidery flower with slender quilled petals cascading beautifully from a very full center. Height medium. October 15.



**MRS. V. MOOD**



**MORGAN'S WHITE**

**MELODY.** (Sunnyslope-1950). Clear deep yellow throughout. The quilled petals with spoon tips expand horizontally giving a feature of greater size than those that droop. Height medium. October 10. **Price: 50 cents each, \$5.00 per dozen.** (Color illustration page 9.)

**MISS GINA HARWOOD.** This is a sport of the well known variety, "Rayonante." The quilled cord-like petals of this beautiful flower are rosy, straw-bronze in color. Height medium. October 15. (Refer to illustration of Rayonante on page 11.)

**MITSUKO.** The predominant color of this quilled and hooked tip petal is a soft shade of lavender but is also tipped with a decided coloring of French-gray. Very unique. Height medium. (Illustration on page 12.)

**MORGAN'S WHITE.** A pure white quilled type flower. The central yellow button begins to appear as it matures. The flower is of solid substance and lasts exceptionally well on the plant and after cutting. For this reason, this is a popular variety with the commercial flower growers. Height medium. Oct. 15. (Illustration above.)

**MRS. STANLEY WALLACE.** Large quilled petals in the color of coppery bronze. A stunning variety for both cutting and garden effect. Height medium. October 25. **Price: 50 cents, \$5.00 per dozen.** (Illustration above.)

**MRS. V. MOOD.** A full centered flower with slender tubulated petals curving slightly inward at the tip. A clear lavender pink throughout but will become lighter along the edge when it reaches full maturity. Height medium. October 25. (Illustration left.)

**NIGHTINGALE.** A most unique Chartreuse chrysanthemum introduced to date. First disseminated by us in 1938, its popularity seems to mount each year. This color, like all other soft shades, will fade with corresponding light intensity. We recommend, therefore, shading the flower as soon as the bud begins to show color. Medium height. October 25. **Price: \$1.00 each, \$10.00 per dozen.** (Color illustration on page 13.)

**OHKWAN.** This full centered spidery flower with slender quilled petals is soft yellow. The fishhooked tips are very well curved. Height medium. Nov. 1. (Illustrated on page 11.)





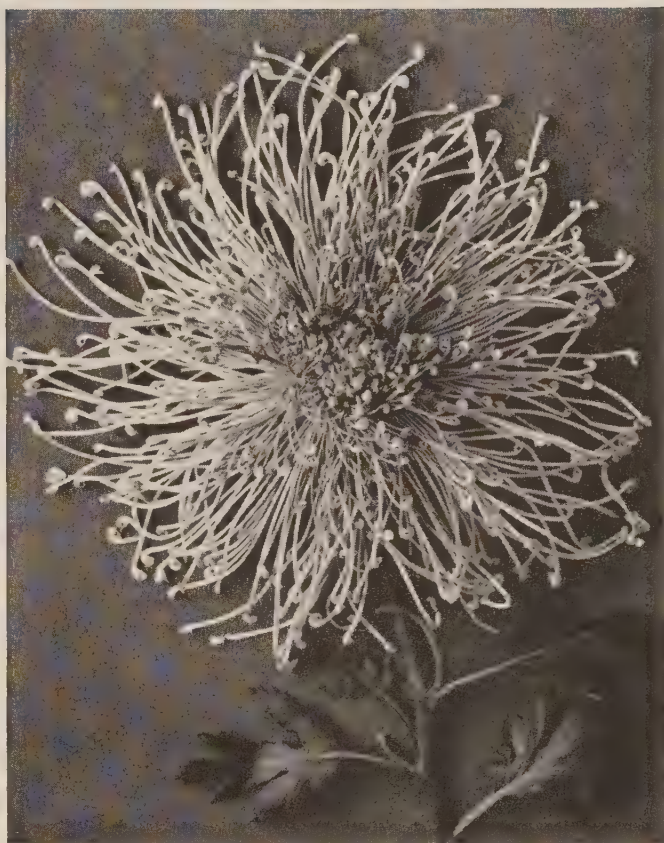
**OHKWAN**

**ORIENTAL KNIGHT.** Perhaps this is the deepest garnet red (bordering toward purple) quilled type flower on the market today. The tips open into spoon shape of variable sizes—some have tiny openings while others are almost feathery. Medium height. Matures November 10. **Price: 50 cents each, \$5.00 per dozen.** (Color illustration on page 13.)

**PALI.** A beautiful pink flower with long, ribbon-like feathery petals falling out from a full center of darker shade. The open, hooked tips curl slightly upward. Tall grower with stiff stems and lovely foliage. Height medium. November 1. (Illustrated below.)



**PALI**



**PUNCH BOWL**

**PAUL MILLER.** Most fascinating buff-bronze with a darker shade of bronze at the center but changing into most captivating coppery tone as the flower opens. Height medium. **Price: 50 cents each, \$5.00 per dozen.** (Color illustration page 9.)



**RAYONATE**





**LORRAINE**

**PEGGY ANN HOOVER.** The straight quilled petals of this flower with spoon tips are lively light pink. Both "Bess Witt" and "Albert Witt" are sports of this variety. Height medium. October 20. (Refer to illustration of "Bess Witt" on page 9.)

**PUNCH BOWL.** A rich burgundy red spidery type flower with slender quilled petals gently falling away from a full center of deeper shade. The open tips are hooked and tightly curled. Height medium. Nov. 1. (Illustration on page 11.)

**QUEEN'S LACE.** The slender quilled petals hang gracefully on this lovely spider. Fully double. The tips are open and well curled. In general resembles our "Ohkwan" excepting in color as it is pure white. An exceptionally good grower. Height medium. October 15.

**RAYONANTE.** The cord-like quilled petals of this full centered flower are a lovely shade of light rose. "White Rayonante," "Yellow Rayonante," and "Miss Gina Harwood" are all sports of this variety. Height medium. October 15. (Illustration on page 11.)



**SUE SALLY JONES**



**SAN GABRIEL**

**SAN GABRIEL.** This splendid full centered true spidery flower is clearest deep yellow. The long quilled petals are medium sized and very tightly curled at the tip. One of the earlier bloomers maturing around October 15. Height medium. (Illustrated above.)

**SARAH MORASCH.** The slender tubulated petals of this spidery variety are a beautiful shade of rose pink. This color changes into a most fascinating pink as it matures fully. Has stronger stems than its staminate parent, "Punch Bowl," though many traits are inherited from the latter such as the formation of its flower, foliage, and petals. (Color illustration on page 9.)

**SILVER LACE.** Petals are lacy and long; the flower, very large. Purest white variety supported on sturdy stem with lovely, healthy foliage. Height medium. October 25.

**SUE SALLY JONES.** A bright yellow full centered flower. The quilled petals stretch out in a flat shape as in the illustration below, left. Popular cut flower variety. Height medium. November 1.



**MAMORU**





**NIGHTINGALE**

**WAIKIKI.** Exceptionally full centered large spidery flower. Combination of orange and bronze in color. Rich golden yellow tips curl inward instead of drooping as in the conventional spidery flower. Tall grower. November 1. Price: 50 cents each, \$5.00 per dozen. (Illustration below.)

**WHITE RAYONANTE.** A pure white sport of "Rayonante." Growing habits identical to its parent. Height medium. October 15. (Illustration page 11.)

**YELLOW RAYONANTE.** Another sport of "Rayonante," a pure yellow. Height medium. October 15. (Refer to illustration of "Rayonante," page 11.)

**ORIENTAL KNIGHT**



**WAIKIKI**





## NOTES ON OUR COMBINATION COLLECTION OFFERS

For the benefit of those many new customers who are not familiar with chrysanthemums by their nomenclature, we are presenting several "Combination Offers" in this catalog. Grouping of these offers is made with the prime object of assisting the customers in their selection of the best varieties within the respective chrysanthemum types such as Spiders, Exhibitions, etc., BASED ON THE BLOOMING SEASON. In other words, if your objective is to purchase plants for a special occasion such as exhibiting flowers at your Club Show on October 25, varieties in Collection Offers B & C will be most suitable, or those living in the colder regions will have better luck with the early blooming collections.

### SPIDER COLLECTION OFFER-A

10 Earliest Blooming—Oct. 1-15

Bertha Oliver Bess Witt Chopstick

Georgina Hedinger Mauve Melody Rayonante

Morgan's White White Rayonante Yellow Rayonante

Catalog Price.....\$3.20

Collection offer.....\$2.70

### SPIDER COLLECTION OFFER-B

6 Early Midseason Flowering—Oct. 15-25

Ito Pink Maria Mamoru Ohkwan

Sarah Morasch Silver Lace

Catalog Price.....\$1.80

Collection offer.....\$1.50

## Odd Varieties and Interesting Forms

### PRICE OF ROOTED CUTTINGS

(Unless Quoted Otherwise)

Each .....	\$ .30
3 of One Name.....	.85
12 of One Name.....	3.00

**DR. ADAH RUTH TAYLOR.** A soft but clear bronze of ever popular "Pink Exquisite." Habit of growth is identical and equally as handsome as its worthy parent. Medium height. November 1. (See Illustration of "Pink Exquisite" on page 15.)

**ENSENADA.** An unusually beautiful flower resembling a double dahlia bloom when disbudded. Brilliant Indian red with yellowish tint on the reverse side. Most lasting as this flower seems all the more attractive after reaching maturity when the color mellows into a terra-cotta red. Height medium to tall. Nov. 1.

**ERNA.** A large flowering semi-double bloom. Deep purple with silvery reverse. Should be disbudded to about six flowers to each plant for better results. Short grower. October 30. **Price: 50 cents each, \$5.00 per dozen.**

**G. KONNO.** A short growing plant with large salmon bronze flowers. The petals are very broad and thick, closely resembling a large size dahlia flower. October 25 on. **Price: 50 cents each, \$5.00 per dozen.**



LAURINDA EARLY



JOY

**LAURINDA EARLY.** A semi-double spoon petalled flower in pure white. More attractive when multiple buds on the bush is disbudded toward the end to one bud per stem. Height medium. November 1. (Illustration lower left.)

**MRS. PINALLE.** Most unusual oddity in mums introduced in recent years. Composed of slender tubulated petals with pointed tips arranged neatly in a single row around a small yellow center. Pure white. Prolific producer of these unique type flowers about 4 inches across on a beautiful, healthy bush. Height medium. Nov. 1.

**OLGA ROSE.** A large flowering, semi-double, semi-incurved flower of the most unusual shade or rather a combination of shades of greenish cream, lavender, rose, and light rose. At maturity, it stabilizes to grayish lavender with creamy tips. Composed of large tubular petals which are pointed. A stunning flower. Height medium. November 1. **Price: 50 cents each, \$5.00 per dozen.**





**REVERIE**

**PINK EXQUISITE.** A suitable name for the flower which is the most exquisite shade of pink. The reflexed petals radiate from the center which has a unique swirl, as in the illustration above, right. This variety is especially attractive when disbudded. Height medium. Nov. 1.

**PURPLE FROST.** A novelty flower of feathery type in purple, tipped with silvery white along the edge of each petal. Full centered and reflexed in form. A wonderful clean grower with lovely foliage throughout the year. Height medium. Nov. 20 on. **Price: 50 cents each, \$5.00 per dozen.**

**SHOOTING STAR**



**PINK EXQUISITE**

**REVERIE.** This flower is composed of spoon-shaped petals of irregular formation with an anemone flowered disc petal. The open portion of the ray petals is a beautiful orchid pink, which the tubulated part and the disc florets are of slightly lighter color. Height medium. Nov. 1. (Illustration above, left.)

**SHOOTING STAR.** An interesting flower in pure white and are large as any of the exhibition class blooms. Has unique resemblance to a double dahlia flower. Its broad petals come to a point like a star, hence its name. This variety should be disbudded. Height medium. Nov. 1. (Illustration below, left.)

**STAR OF THE NORTH.** This white spray type flower is of distinct feathery shape. As the flower reaches maturity, the greatly serrated petals turn and intertwine exhibiting an interesting form. Height medium. Nov. 5.

**YELLOW TAGGARTS.** An odd yellow flower with quilled petals covered with hairy spines. More attractive when disbudded. Height medium. November 1. **Price: 50 cents each, \$5.00 per dozen.** Illustrated below.)



**YELLOW TAGGARTS**



## Ichimonji or Horizontal Efflorescent Varieties

These varieties have very large, broad petals resembling single Dahlia flowers, and like most other singles, their colors are very intense and clear. Do not feed them too heavily. They may be grown either in sprays or disbudded. Grows to medium height.

**Price:** 75 cents each, \$7.50 per dozen.

**EVELYN.** Pure white. October 25.

**GERRY.** Intense bronze with gold reverse. Matures October 25.

**GOLDEN PRIDE.** A golden yellow. Matures October 30.

**PALOMA.** A lavender. Matures around November 1. (See color illustration, right.)

**SENSATION.** A purest white. Matures October 10.



PALOMA

## Spoon Chrysanthemums

### PRICE OF ROOTED CUTTINGS (Unless Quoted Otherwise)

Each .....	\$ .30
3 of One Name .....	.85
12 of One Name .....	3.00

**FROLIC.** This bush type spoon flower is rich golden yellow, a shade deeper than "Pauline." A very attractive variety as it blooms in great profusion on a comparatively low and bushy plant. October 25. (Illustrated lower right.)

**JOAN BERGER.** A beautiful orchid pink throughout. Formation much similar to "Frolic." Vigorous grower and producer of quality blooms every season without failure. Height tall. Nov. 5.

**KIMIE.** (49-M-1). A charming clear yellow spoon type of our recent introduction. Has double rows of beautiful long tubulated petals. The popularity of this variety is reflected by the unusual number of orders received during our Mum Show. Height medium. October 20. **Price:** 50 cents each, \$5.00 per dozen. (Illustration on page 19.)

**MRS. ALAN MORPHY.** This semi-double spoon type flower resembles our "Scintillation" in formation. It produces a wealth of soft shell pink flowers 3½ inches in

diameter on a healthy, compact plant about 30 inches in height. May be disbudded to create larger flowers. October 25.



FROLIC





**SCINTILLATION**

**MRS. GWEN CHEESEWRIGHT.** This spoon variety has only one row of petals. The quilled part is grayish lavender and the spoon opens into a stunning rose pink. A lovely bush type fully maturing around November 5.

**ORANGE SPOON.** (# 29) A Novel 1951 introduction similar to "Frolic" but larger. Yellow orange in color which makes an exceptionally beautiful floral arrangement. November 10.

**PAULINE.** Another decidedly single type spoon variety. A soft yellow throughout and a healthy grower. Height medium. Nov. 5.

**SCINTILLATION.** A luminous orchid pink spoon type blooming around October 20. The inner rows of

petals cup slightly upward as noticed in the illustration on left. Will produce flowers five to six inches in diameter when disbudded. Height medium.

**SNOW QUEEN.** An attractive pure white spoon type flower. Very productive and responds well to disbudding. Medium height. Nov. 1. (Illustration of disbudded flower below, left.)

**WHITE SPOON.** A full centered white spoon variety reaching maturity early in October. Abundance of flowers about 3 inches in diameter carried on a healthy bush about 30 inches high.

**YELLOW SPOON.** A double spoon variety in buttercup yellow. A perfect match with "White Spoon," as they blossom together.

**YOMEI.** Quilled part and reverse side of the petal is rich old gold. Spoon tips open to bright red. Height medium. Nov. 10. (Illustration below, right.)

### **SPIDER COLLECTION OFFER - C**

**Eight Mid-Season Flowering**

(October 25-November 5)

Emerald Isle    Jean Ranger    Jean Squire  
Lorraine    Marsha    Oriental Knight  
Punch Bowl    Waikiki

Catalog price .....\$4.10

Collection offer ..... \$3.50



**SNOW QUEEN**



**YOMEI**



# Large Flowering Commercial Varieties

*In answer to many queries sent in each year requesting differentiation of Commercial and Exhibition large flowering varieties, we admit that there is only a slight difference between the two types. Many varieties in the commercial listing are Exhibition flowers and many Exhibition varieties are also good Commercial flowers. The reason for this segregation is that the Commercial Large Flowering varieties must have these specific qualifications: (a) good substance—a flower that will pack well and keep well after being cut; (b) stiff stem—a stem that will support the flower erect when arranged; (c) good foliage—foliage that is healthy and clean; (d) proven satisfactory by a period of actual marketing.*

## PRICE OF ROOTED CUTTINGS (Unless Otherwise Quoted)

Each .....	\$ .20
3 of One Name.....	.55
6 of One Name.....	1.00
12 of One Name.....	2.00

## BRONZE

**ALAMEDA.** Incurred clear bronze of solid substance. Stiff stem and good foliage. Height medium. October 5. **Price: 35 cents each, \$3.50 per dozen.**

**AMY.** Incurred flower. Beautiful shade of buff and orange—a color similar to “Appert.” Height medium. November 10. **Price: 50 cents each, \$5.00 per dozen.**

**BRONZE FRICK.** A sport of “Miss Helen Frick.” Apricot bronze with lighter reverse. Height medium. November 15 on.



**CHRISTINA**



**BUTTERBALL**

**EMPEROR.** Our introduction in a bronzy-red reflexed flower. Height medium. October 20. (Illustration on page 19.)

**HILDA BERGEN.** Beautiful mahogany bronze incurved flower. Medium sized spherical bloom. Height medium. October 15.

## PINK

**J. W. PRINCE.** Excellent pink, incurved of good size. Height medium. October 25.

**LILAC LOVELINESS.** Medium sized lavender pink. Semi-incurved. Good foliage and stem. Height medium. October 25. **Price: 35 cents each, \$3.50 per dozen.**

**MAJOR EDW. E. BOWES.** Bright rosy pink. Medium size semi-incurved flower but very compact. Height medium. Oct. 15 or earlier.





**GARNET KING**

**MISS HELEN FRICK.** Incurved clear orchid pink. Popular market flower. Height medium. November 15.

**ORCHID QUEEN.** Giant size incurved in a lovely shade of orchid pink. Strongest stem and easy grower. Height tall. Oct. 25. **Price: 35 cents each, \$3.50 per dozen.**

**PINK CHIEF.** Incurved, medium size flower in orchid pink. Height medium. October 1. (Illustrated on page 20.)



**EMPEROR**

## RED

**BLACK HAWK.** Deepest crimson red. Reflexed flower of medium size. Height medium. October 25.

**GARNET KING.** Popular garnet-red flower of reflexed type. Most luxuriant foliage. Height medium. November 1. (Illustration on left.)

**HARVARD.** Another reflexed type flower in a brilliant dark red. Height medium. November 15 on.

**MOHAWK CHIEF.** Red with gold reverse. Large semi-incurved flower. Height medium. November 20.

**MRS. DAVID F. ROY.** Semi-incurved flower of good size. Deep crimson and gold reverse. Height medium. October 20. **Price: 25 cents each, \$2.50 per dozen.**

## WHITE

**CHRISTINA.** Reflexed flower in pure white. Most satisfactory in the early flowering class. Height medium. October 8. (Illustration page 18.)

**INDIANAPOLIS WHITE.** Globular flower of large size. Good stem and healthy foliage. Outstanding in this class. Height medium. Oct. 20. (Illustration below.)

**QUAKER MAID.** Reflexed large. One of the earliest in the whites. Height medium. October 1.

**SILVER WEDDING.** Snowy white reflexed type. Very well known. Tall. November 10.

**STERLING.** Large incurved flower in pure white. Indispensable market flower to follow "Indianapolis White." Height medium. November 5. **Price: 35 cents each, \$3.50 per dozen.** (Illustration on page 20.)



**INDIANAPOLIS**





**ORIOLE**

**VENUS.** Incurved globular white. Height medium. October 10.

**WHITE CHIEF.** Semi-incurved pure white. Height medium. October 5. (Illustrated below, right.)

**WHITE FRICK.** Satiny white, large incurved. Height medium. Nov. 15.

## YELLOW

**BLAZING GOLD.** Rich golden incurved flower of good size. Good substance, stem, and foliage. Height medium. October 10.

**BUTTERBALL.** Clear lively yellow incurved. Giant sized. Best in the early class. Height medium. October 1. (Illustration on page 18.)

**CELEBRATION.** Rich yellow. Loosely incurved, almost reflexed large flower. Healthy grower. Height medium. October 25.

**CELESTRA.** Clear yellow incurved. Height medium. October 10.

**DECEMBER QUEEN.** Reflexed. Clearest yellow. Height tall. Dec. 1 on.

**FRIENDLY RIVAL.** Richest golden yellow. Giant incurved flower. Most stunning. Height medium. Nov. 1. Price: 25 cents each, \$2.50 per dozen.

**GOLD LODGE.** Reflexed medium size flower. Height short. October 5.

**HONEY DEW.** Semi-incurved. Pleasing soft yellow. Height medium. November 15.



**STERLING**

**ORIOLE.** Bright golden yellow. Incurved of giant size. Height tall. Oct. 25. (Illustration above, left.)

**YELLOW CHIEF.** Clear yellow sport of "White Chief." Semi-incurved. Height medium. October 15. (Illustrated below.)

**YELLOW MEFO.** Soft yellow incurved. Extremely satisfactory variety. Height medium. November 15.



**WHITE CHIEF**



# POMPON★ SECTION

★ In florist trade, the term "POMPONS" is referred only to small flowering varieties such as Buttons of less than 1 inch and Disbudded Pompons measuring about 3 inches in diameter. In other words, Pompons are not large flowers.

## Intermediate Type Pompons

### PRICE OF ROOTED CUTTINGS (Unless Quoted Otherwise)

Each .....	\$ .20
3 of One Name .....	.55
6 of One Name .....	1.00
12 of One Name .....	2.00

Varieties listed under this title are to be grown as sprays. Should be topped at least three times during the summer to encourage them to form a good size bush.

### BRONZE

**ALGIERS.** Bright apricot bronze—medium size flowers. Oct. 25.

**ARGO.** Beautiful bronzy-orange, shading to rust. Dec. 1.

**BONTON.** Well rounded flower—bright bronze with a deeper bronze in the inside of the petals. October 20.

**BRONZE BULKELEY.** A buff-bronze sport of "Mrs. Morgan Bulkeley." Very globular flower. October 25.

**BUTTERSCOTCH.** Butterscotch bronze. Globular pompon type of recent introduction. October 15. **Price: 25 cents each, \$2.50 per dozen.**

**CALIFORNIA FIREBIRD.** A reddish bronze flower with glints of gold. Dec. 1.

**DIADEM.** Deep bronze flower of tight globular form. Nov. 15.

**JOAN WELLS.** A sport of "Pink Dot." Orange bronze with dark center. October 15.

**MANCHUKUO.** Gold and reddish bronze combination. Nov. 1.

**NATOMA.** Decorative flower in deep bronze with dark green foliage. October 25.

**PEGGY POESCH.** Well rounded clear bronze flower. Nov. 1.

**RUBICON.** Newcomer in a bright reddish bronze. Decorative in form. November 1. **Price: 25 cents each, \$2.50 per dozen.**

**SPARKLER.** Beautiful clear bronze which is very productive. Nov. 1.

**TRIANON.** Deep bronze. Splendid sprays of the most globular flowers. Oct. 25.

**WILDFIRE.** Deep shade of orange bronze decorative flower blooming around Dec. 1.

### PINK

**GRACIE FIELDS.** Decorative type in deep rose shading into purple. November 1.

**HIGHLIGHT.** That pleasing combination of light and dark pink shading almost to red in the center before maturity. Nov. 1.

**JESSIE.** Deep rose pink with a deep pink eye. Oct. 15.

**LETITIA.** Clear pink with a deep pink center. Similar to "Pink Dot," only larger. October 25.



SUNNYSIDE

**MARY MacARTHUR.** A well rounded spray type in a color combination of pink, rose and bronze. Very unique. October 25.

**MISSION.** This beautiful flower is soft pink with a pronounced deep rose center. October 15.

**MINSTREL.** Lavender pink. Well rounded and tightly cupped. Nov. 25 on.

**PINK DOT.** Original "Dot" strain—clear pink with dark pink center.

### RED

**CAMPFIRE.** Closely compact orange red flower. Nov. 15.

**CHRISTMAS RED IMPROVED.** Bright crimson red small pompon for December.

**DEBONAIR.** Rich crimson red decorative flower. Dec. 1.

**NAVAHO.** Deep crimson bordering to the reddish bronze. Nov. 1.

**ROBIN HOOD.** Blood red flower about 1 inch in diameter. October 25.



## WHITE

**CRYSTAL BEAUTY.** Pure white of solid texture. Nov. 10. **Price: 25 cents each, \$2.50 per dozen.**

**ENCORE.** Medium sized pure white flower. October 15. **Price: 25 cents each, \$2.50 per dozen.**

**MOONGLOW.** Another productive white clustered flower for around October 15. **Price: 25 cents each, \$2.50 per dozen.**

**POPCORN.** Rather humorously but appropriately named. Strong upright growing plant is covered with snow white flowers like that of popcorn. October 15. **Price: 25 cents each, \$2.50 per dozen.**

**SILVERSMITH.** Late flowering decorative pure white flower normally flowering in December. **Price: 25 cents each, \$2.50 per dozen.**

**SNOW CAP.** Globular type white cluster flowers for Christmas season. **Price: 25 cents each, \$2.50 per dozen.**

**SNOW CREST.** Another late flowering solid white variety with green premature center. Dec. 10. **Price: 25 cents each, \$2.50 per dozen.**

## YELLOW

**BARCAROLE.** Formal ball shape flowers in rich golden yellow. November 1.

**CANARY.** True canary yellow—round flowers. November 15.

**CONSTELLATION.** Decorative type in deep golden yellow. Splendid production. October 25.

**FORTY-NINER.** High quality flower in the clear yellow class. Strong upright plant. November 5. **Price: 25 cents each, \$2.50 per dozen.**

**GOLDEN ANNIVERSARY.** Deep golden yellow flower about the size of "Sunnyside" in the illustration. December 15.

**INDA-GOLD.** Well rounded flower produced in wonderful sprays. October 20.

**SUNNYSIDE.** Another top quality well rounded flower for Thanksgiving. (See illustration on page 21.)

**YELLOW DOT.** Unusually beautiful yellow pom with pronounced deep center. October 20.

## TREASURE ISLAND STRAIN OF SPRAY CHRYSANTHEMUMS

Noted strain that can be delayed for Christmas market in Southern California. Very heavy producer of quality flowers about 2 inches in diameter. They are supplied in four shades: Bronze, pink, white and yellow. All at standard price of **20c each, \$2.00 per dozen.**

# Large Pompons Suitable for Disbudding

These varieties, when disbudded, will form flowers about 2 to 3 inches in diameter.

## PRICE OF ROOTED CUTTINGS (Unless Quoted Otherwise)

Each .....	\$ .20
3 of One Name.....	.55
6 of One Name.....	1.00
12 of One Name.....	2.00

Varieties listed in this group should be disbudded after a good size bush is first obtained. Flowers thus treated will be more perfectly formed and much larger in size than not disbudded.

## BRONZE

**BRONZE GOLDSMITH.** Rich bronze sport of "Goldsmith." November 20.

**BRONZE MASTERPIECE.** Variable shades of deep and golden bronze. Sport of "Masterpiece." October 25. (See illustration on right.)

**CELEBRITY.** Rich apricot-bronze intensifying toward the center. Large decorative type flower. (Illustrated on page 23.)

**DOROTHY TURNER.** Our introduction of special merit. Orange yellow petals tipped and reverse of intense rust. Red premature center. November 15. **Price: 25 cents each, \$2.50 per dozen.**

## PINK

**ANGELO.** Soft pink flower shading to lighter pink at the edge of petals. October 10.

**CALIFORNIA PRIDE.** Deep pink flower with trace of silver along the edge of the petals. November 1.

**DAWN.** Soft pink, almost white, large flowers. November 1.



Top: **THYRA**  
Center Left: **BRONZE MASTERPIECE**; Center Right: **SNOWBALL**; Bottom Left: **GOLDEN FAIRY**; Bottom Right: **QUEEN OF PINKS**.



**ELORA.** Shell pink and deeper pink in the center. October 25.

**FAIRMAID.** Stunningly beautiful clear shade of Day-break pink. October 25.

**MASTERPIECE.** Tourmaline pink. Best when disbudded. October 25.

**QUEEN OF PINKS.** Deep orchid pink. Produces flowers 3½ to 4 inches in diameter when disbudded. October 15. (See illustration on page 22.)

**THYRA.** Deep lavender pink with close, compact, cupped petals giving an appearance of a pompon dahlia flower when disbudded. November 1. (See illustration on page 22.)

## RED

**MRS. MARY HOOKER.** Deep red, large decorative flower maturing about November 20.

**ROYAL CRIMSON.** An attractive crimson red. November 20.

## WHITE

**ARCADIA.** Well rounded flower in pure white. October 25.

**GRANITE STATE.** Popular pot variety in pure white. October 15.

**PRISCILLA.** Pure white globular flower. November 20.

**PRISTINE.** New pom in pure white. Lovely erect plant. October 20. Price: 25 cents each, \$2.50 per dozen.

**SEAFOAM.** Snow white, large flowers of beautifully round form. November 5.

**SILVER BALL.** Pure white variety responding well to disbudding. October 10.

**SNOW BALL.** When disbudded, this variety will develop good size flowers in early October. (See illustration on page 22.)

**WHITE DOTY.** Large globular flower in creamy white. October 25.



CELEBRITY

## YELLOW

**CININNATI.** Rich golden yellow. October 10.

**GOLDSMITH.** Deep yellow. Lovely decorative flower for around Thanksgiving.

**GOLDEN FAIRY.** Excellent early flowering clear yellow. Best disbudded. October 15.

**YELLOW ARCADIA.** Light yellow sport of "Arcadia." October 25.

**YELLOW DOTY IMPROVED.** Light yellow globular pom. October 20.

**YELLOW SEAGULL.** Clear yellow sport of "Seagull." October 20.

## ELSIE KRAMER VARIETIES FOR DECEMBER FLOWERING

Probably there is no other variety in spray chrysanthemums so widely cultivated today by the commercial cut flower growers for Christmas season here in Southern California than the original "Elsie Kramer" (Pink) and many of its sports. Available in these colors: Bronze, Pink, Peach, White, Rose, and Yellow. Prices: 20 cents each, \$2.00 per dozen.

### INTERMEDIATE AND LARGE POMPON COLLECTIONS

#### COLLECTION . . . D

10 Early Flowering Varieties—

Blooming dates up to October 15

Burma	Charles Nye	Chippewa	Courageous
Golden Fairy	Huntsman	Queen of Pinks	
Pink Radiance	Silver Ball	Tiffany Rose	

Catalog Price.....\$2.35

Collection offer.....\$2.00

#### COLLECTION . . . E

10 Early Midseason Flowering—Oct. 15-25

Algiers	Arcadia	Constellation	Elora	Joan Wells
Natoma	Pink Dot	Robin Hood	White Doty	
		Yellow Dot		

Catalog Price.....\$2.00

Collection offer.....\$1.75

#### COLLECTION . . . F

10 Midseason Flowering—Oct. 25-Nov. 5

Barcarole	Campfire	Celebrity	Fairmaid	Letitia
Highlight	Mission	Navaho	Seafoam	Thyra

Catalog Price.....\$2.00

Collection offer.....\$1.75

#### COLLECTION . . . G

10 Late Flowering—Nov. 5 on

Christmas Red Improved	Goldsmith	Bronze Goldsmith
Treasure Island White	Elsie Kramer	
Goldsmith Peach	Rose Elsie Kramer	
White Elsie Kramer	Treasure Island Yellow	

Catalog Price.....\$2.00

Collection offer.....\$1.75



## Grown Anywhere

*BEAUTIFUL CHRYSANTHEMUMS are grown throughout the world. You, too, can have these Chrysanthemums in your garden, regardless of where you live.*

*Customers in Northeastern and Eastern States write us of the wonderful success they have had with our Chrysanthemums, though some grew them for the first time. They have been able to grow not only hardies, but also Commercial-exhibitions Pompons, as well as the exotic Spidery types. Blooms of some of the Spidery varieties even stand the freezing weather with little protection. Our Southern States customers are pleased with the prize-winning blooms they have been able to produce there.*

## AIR PARCEL POST

*We recommend Air Parcel Post to all destinations beyond Postal Zone 4 for shipment of Chrysanthemum Rooted Cuttings.*

*Parcels shipped to non-airport city will be forwarded by surface transportation from nearest airport city.*

Turn to page 2 for rates and other information.

## EARLY ORDERS

*Place your orders early for prompt shipment. We will do our best to ship your order on or near the date requested.*

**COLOR VARIATION:** All color descriptions given in this catalog are somewhat arbitrary. They are observations made here in San Gabriel, California, when the plants were grown under normal conditions and taken during their best period. Undoubtedly, the colors given would be more intense when cultivated in the cooler sections of the country, which is evident when an identical variety is grown in the cool coastal areas only 30 miles away from San Gabriel, while the same variety may become lighter in color when raised in the desert areas of California, Arizona, and parts of Texas, where late summer weather prevails during the Chrysanthemum season. Complete absence of the bronze color from the variety, "Mamoru," and the green color from "Nightingale" is evidence of color bleaching when subjected to prolonged solar heat during the blooming period.

**HEIGHT AND THE BLOOMING DATES:** The height and the blooming dates are also based on observations made at our Gardens in San Gabriel, where a uniform cultural pattern is followed for a number of years. Planting is done between May 15 and June 30 or later in order of blooming period. The plants are all topped when they are about 6 inches high and, if necessary, topped twice. The terminal buds are retained for all early varieties, and mostly any bud being saved after September 1. All this is mentioned because the time of planting largely governs the height of the plant and the selection of buds has direct bearing on the blooming date. Height between 2 to 4 feet tall if listed as medium; everything above is tall, and below is short.

**CHANGES CAUSED BY DISBUDDING:** Frequently during our Show we are asked, particularly by our new customers, why their flowers are not true to our catalog description or similar to our garden specimen plant. In most instances, the discrepancy is due to non-disbudding. Only by disbudding are we able to grow large size flowers as described in our catalog. Also, the round, perfectly spherical pompons or the prominent cushions centers of the anemone flowered varieties will not be present when grown in sprays.

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# POMPON SECTION

## BUTTON TYPES

### PRICE OF ROOTED CUTTINGS (Unless Quoted Otherwise)

Each .....	\$ .20
3 of One Name .....	.55
6 of One Name .....	1.00
12 of One Name .....	2.00

**ADORABLE.** Lovely small yellow round flower produced in beautiful sprays. December 1.

**ANNETTE.** Beautiful pink shade. Loaded with small round blooms around November 5.

**ANN FULTON.** Exceptionally popular during our show. Pink with deep rose center. One of the most prolific in the buttons. October 25.

**BABY.** Clear yellow. A real miniature among the buttons—yet it is perfectly formed and well rounded. November 1.

**BOBETTE.** A lavender with dark rose premature center. Excellent producer, creating a lovely pair with “Adorable” as it blossoms together around December 1.

**BONNIBEL.** Lovely shade of bronze. A low grower. October 25.

**CLARA JAMESON.** Exceptionally heavy producer of attractive bronze flowers. October 15.

**CLARE.** Most satisfactory small type flower in white . . . so satisfactory that it has replaced “Mary Pickford” and many of the older varieties in this class. October 30.

**DARK PINK JEWELL.** A deep pink sport of “Jewell.” October 10.

**DOROTHY NEHRLING.** Deep rose pink. Splendid production. October 25.

**ETHEL.** Small clustered flowers in red. Dwarf habit. October 25.

**IRENE.** Lovely, perfectly round small flower in purest white. One of the best. October 15.

**ISOBEL.** A small flower with tightly cupped petals in a beautiful shade of deep pink. October 25.

**JEWELL.** Larger size button in deep pink color. Produces attractive flowers on a low growing bushy plant. October 5.

**NANCY CRAIN.** Perfectly formed white button, diffused slightly with an orchid shade increasing in intensity inward to a pronounced eye. November 5.

**NUGGETS.** One of the most popular varieties in rich golden yellow. October 25.

**ORCHID JEWELL.** Light orchid pink sport of “Jewell.” October 1.

**PATSY DAWD.** A red variety quite similar to “Ethel,” but taller. October 25.

**PINK SPRITE.** Clearest orchid pink well rounded button. A newcomer in this field and a popular one too. October 25.

**PINOCCHIO.** Probably the purest white in this class. Produces uniform flowers in fine sprays. October 25.

**PIXIE.** Larger size button in bright clear yellow. Extremely productive. October 25.

**SUZANNE.** Composed of two distinct types of petals, tubulated and flat. Tubulated petals are deep rose and the flat petals are light pink, mixed in a “Calico” effect. Stunning variety. November 1. **Price: 25 cents each, \$2.50 per dozen.**

**WHITE JEWELL.** A white sport of “Jewell” which has a slight trace of pink at times. October 5.

**YELLOW IRENE.** This lovely lemon yellow compact button flower is a sport of “Irene.” October 20.

### Please Order Early

Though we always endeavor to fill your order on or near the date that you specify, we appreciate early orders which enables us to make plans to ship only First Grade plants to you. Actually you are helping yourself by helping us when you order early.

## University of Illinois Introductions

**ILLINI BOUNTIFUL.** Creamy white larger size button sprays formed on very erect stems. November 10.

**ILLINI BRAVE.** Yellow button about the size of “Pixie.” November 10.

**ILLINI REDHEAD.** Beautiful red button type. November 10.

**ILLINI SNOWFLAKES.** White decorative pompon of a most unusual formation. Petals are feathery in form and deeply serrated along the edges. November 10.

**ILLINI WARRIOR.** Button type in warm apricot bronze. November 10.

**Price: 25 cents each; one each of above 5 Illini varieties at \$1.00.**





NORTHLAND DAISY

## Hardy Northland Daisies

Low growing, super hardy, daisy like flowers with glossy dark green foliage peculiar only to this type. Thick leathery foliage creates attractive border plants even when not in bloom. In full bloom by October 10.

**ASTRID.** Soft pink shaded apricot.

**GOOD MORNING.** Pure yellow. Identical in general growing habit to "Astrid."

**IGLOO.** A white daisy. Exceedingly free flowering.

**KRISTINA.** Deep rose pink which is almost purple, a shade which is most attractive in the fall garden.

**LOKI.** Variable shades of pink and rose.

**Prices:** 25 cents each. Special offer of "Northland Daisies": 1 each of above 5 varieties at \$1.00.

## Hardy Cushion and Dwarf Mums

### PRICE OF ROOTED CUTTINGS (Unless Quoted Otherwise)

Each .....	\$ .25
3 of One Name .....	.70
12 of One Name .....	2.50

Recommended for borders, rock gardens, pot plants, or wherever low, bushy, mass color effect is desired. Blanket of colors from early September. Better when transplanted after the third year.

**AMELIA.** Pink cushion. The original cushion mum in variable shades of pink.

**CHAMPION CUSHION.** Deep bronze color and the general habit of growth like "Amelia."

**CORAL SEA.** Dwarf mum. Salmon buff color, suffused coppery rose. Very hardy.

**CRIMSON CUSHION.** Wine red. Price: 50 cents each, \$5.00 per dozen.

**GOLDEN CARPET.** Dwarf pompon. A creeping growing habit, only about 1 foot high. Develops a mound two feet across loaded with round golden colored pompons. Price: 50 cents each, \$5.00 per dozen.

**GOLDEN CUSHION.** Rich golden yellow. Rugged, stocky, well formed plant of "Amelia" strain.

**JUDITH ANDERSON.** Dwarf button pompon. Produces solid mass of well rounded pompon button flowers about 1½ inches in diameter of rich golden yellow. October 5.

**POWDER PUFF.** Newcomer in white cushion. Plant about 1 foot high, loaded with pure white double flowers.

**QUEEN CUSHION.** White cushion of "Amelia" strain.

**YELLOW CUSHION.** Orange color.



HARDY CUSHION MUMS



# Cascade Standard Varieties

The Cascade varieties are all of exceptional beauty and exquisite daintiness. While chosen primarily for the ease with which they may be trained to hang or "cascade" downward, there are numerous ways in which they may be made to yield equally gratifying results with a minimum expenditure of time and effort.

Planted in the garden and topped a number of times in the usual manner, these little-heralded horticultural phenomena will develop a rugged bushiness of free flowering growth that for sheer beauty may, perchance, outrival the much vaunted glory of the larger and more pretentious of their brethren.

Grown in pots and without special training, they may be taken care of in the open until such time as it is desirable to transfer them indoors, where their presence may lend a bit of sunshine to what otherwise might be a colorless interior. Let the Fall season of dark shadows and crispness of air be brightened and warmed by the comforting cheer irradiating from one or more well-groomed plants of this type strategically placed on window ledge, bench or table.

## PRICE OF ROOTED CUTTINGS (Unless Quoted Otherwise)

Each .....	\$ .20
3 of One Name.....	.55
6 of One Name.....	1.00
12 of One Name.....	2.00

**ANNA.** White daisy type flower with golden yellow center. Blooms are about 2 inches in diameter. Grows like "Jane Harte" in the illustration. November 1.

**AUTUMN GLORY.** Autumn colors of bronze and russet. Daisy type flower about 3 inches in diameter. October 25.

**BRIDAL VEIL.** Snow white. Daisy type flower about 3 inches across blooming in great profusion. October 1.

**CAMEO.** Dainty small button anemone flower in deep lavender also shading deeper toward the center. Splendid variety for a medium size cascades. October 25.

**CAVALIER.** A deep rose, almost purple colored double flowers about 2 inches in diameter. A strong grower. November 5. **Price: 25 cents each, \$2.50 per dozen.**

**CHEER.** (439). Deep yellow anemone flowered bloom about 2 inches in diameter. Very attractive and lasting. November 1. **Price: 25 cents each, \$2.50 per dozen.**

**FIREFALL.** Garnet red daisy type flower. Blooms about 2 inches in diameter. Free flowering and attractive. October 30.

**FORTUNE.** Semi-daisy flower in magenta purple. Flowers about 2½ inches in diameter. November 10. **Price: 25 cents each, \$2.50 per dozen.**

**GERTRUDE COMPTON.** Button anemone type flower in pure yellow throughout. Suitable for medium size cascades. Also splendid for rock gardens or borders. October 20.

**HALLOWEEN.** Anemone type flower. Bronze ray petals and deeper bronze cushion center. Matures at Halloween time.



JANE HARTE

**JANE HARTE.** A clear yellow sport of "Anna." Together with its parent, the most popular and satisfactory cascading variety of today. November 1. (See illustration on this page.)

**LAVENDER MIST.** Lavender pink anemone type flower. Has well rounded cushion of same color with double rows of ray petals. November 1.

**NIAGARA FALLS.** Creamy white blossom about 3 inches apart. Exceptionally beautiful cascade variety. A long grower. October 20.

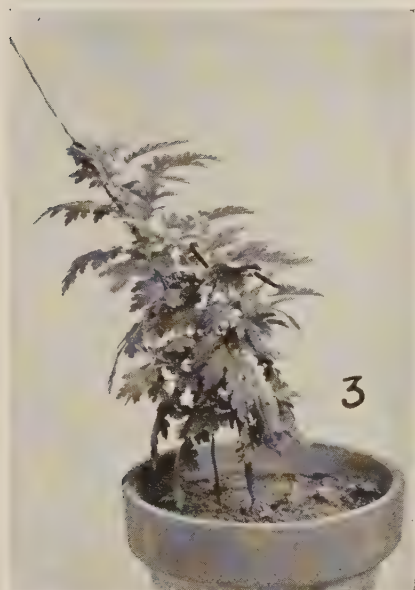
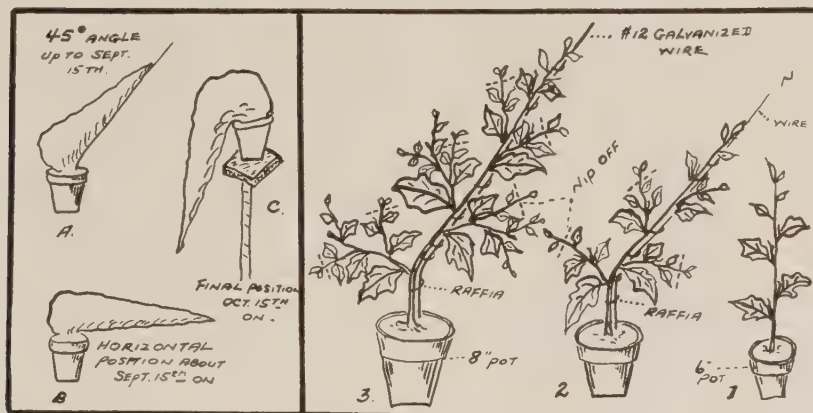
**THE REAL MACKAY.** A pink daisy type flower of unusual beauty. Very self-branching type and an easy grower. October 25.

**CERTIFICATE OF INSPECTION FOR INTER-STATE SHIPMENTS.** Our plants are inspected by the Bureau of Entomology and Plant Quarantine of the California Department of Agriculture and each package carries a Certification of Permission to move interstate.

**TO OUR CALIFORNIA CUSTOMERS:** Having complied with rigid pest inspection requirements of the California Department of Agriculture, we are authorized to use Official Inter-county nursery stock certificates (Pinto tag) permitting shipments to other counties without destination inspection. Destination inspection is still necessary only in the counties of Butte, Colusa, Sutter, Tulare, Ventura, Yuba.



# Cultural Suggestions for Cascades



Tying and Pinching (see drawings and photos)

## Suggestions for Culture of Cascades

**PREPARATION OF SOIL.** The potting soil is prepared by mixing 2 parts by volume of fibrous loam of good structure, 2 parts well decayed leaf mold, and 1 part of manure. In addition, a 5-inch potfull of bonemeal or superphosphate may be incorporated to every 3 bushels of mixture. This soil mixture may be prepared in large quantities and stored in shelter for later use.

**FERTILIZER.** Twice a month, application of commercial fertilizer (liquid fertilizer preferred) should be made during the most active growing months for cascades commencing from mid-May up to the formation of buds. When dry commercial complete fertilizers are used, it is cautioned not to over-feed a plant, always remembering that light applications frequently made are far better than over-dosing it at any time.

**RE-POTTING.** Plants may be put into 6-inch pots when bought from us. Two or three shiftings into larger pots are required during the season and these shifts should be made before plants form their first root network around the inside of their containers. Final repotting may be made about the middle of July or thereabouts and size of pots used depends on the size of Cascades.

**TYING AND PINCHING.** (See drawings and photos on page 30.) When the plant grows to about 12 inches tall (Drawing No. 1), it is bent from about the middle and its end tied to a fairly long No. 12 size wire and is bent at an angle of 45 degrees (as in Fig. 2). The supporting wire should point north and the leader must be tied to it with raffia (see Figs. 2 and 3) at least once a week. All laterals and sub-laterals should be pinched at every second or third leaf joints as in Fig. 2, and this operation should be repeated continuously until around September 15. As the plant increases in width, an additional support is necessary to prevent toppling over on one side (see Fig. 4). The main leader is lowered gradually so that it will be in horizontal position around September 15, as in Fig. B. When buds begin to form, the main stem starts bending vertically from its horizontal position, with the surface of the plant facing south, as in picture No. 5.

When buds begin to show color, the pot is placed on a high position so that the sprays will not touch the ground and bent to its final vertical position (as in Fig. C. Also see illustration of "Jane Harte").



# Cultural Suggestions – Commercial and Exhibition Types

**SOIL PREPARATION.** Chrysanthemum beds should be prepared early by spading into the ground a liberal amount of decayed manure. The ground should be spaded to a depth of 12 to 15 inches. Peat is used if ground is either too sandy or too heavy.

**FERTILIZING.** About three applications of complete fertilizers, such as "Gaviota," "Vigoro," etc., should be made at two to four pounds per 100 square feet. Feeding should be avoided during periods of extreme heat or when soil is too dry. The soil is watered before the application if necessary. The last application is made when buds are large enough to make the final selection (Figure 2 below).

**STOPPING.** When the plant is established in a garden and has developed two or three pairs of matured leaves, the center or the main growth is nipped off. From then on, the plant should be restricted to form about three or four shoots in order to obtain large blooms. For a late blooming variety, the main growths of these new shoots may be nipped off again around July 15 in order to regulate the height.

For large pompons and anemones, six to eight stems are allowed to grow to a plant. Other cultures for these are similar with those of large flowering varieties.

**DISBUDDING.** (See drawings below.) Immediately after new shoots of your selection begin to send out new laterals, they should be removed very close at the base (see lowest lateral of Figure 1) at regular intervals of about once a week. This procedure should be adhered to religiously in order to obtain successful results.

**SELECTION OF BUDS.** The first bud produced by the plant is called the "Crown bud" and is distinguished by being surrounded with leaves. The "Terminal bud" appears later in clusters surrounded with flower buds.

The procedure of "taking buds" depends very largely on the variety, and no fast rule can be given, but we recommend retention of terminal buds for majority of early flowering Commercial and Exhibition types, particularly here in Southern California. The safest rule, we find, is not to save buds formed before August 20 in our district. Retention of early formed "Crown buds" often results with large percentage of crippled flowers, especially when a large amount of nitrogen fertilizer remains unconsumed by the plant. Furthermore, since the hottest period of the year usually comes during the month of September and early October, the hazards of burnt petals and fading of colors are too frequently experienced when early crown buds are retained in our district.



The final selection of a bud should not be made too hastily nor when it is very small (see Figure 1). It is also advisable to allow an alternate bud (see Figure 2) to remain until one is certain of all defects when final selection is made (Figure 3).

## CONTROL MEASURES FOR INSECTS AND DISEASES. INSECTS.

1. Leaf tyer. A brown moth emerges at night and lays white eggs which hatch into white caterpillars, but later change into a green color. Control: DDT.
2. Aphids, leaf miner, and red spider. Controlled with sprays such as "Vaportone," "Parathion," etc.
3. Thrips. Control: DDT.
4. Mealy bugs. Control: White oil emulsion sprays.

5. Tarnished plant bug. A yellowish brown bug with long proboscis used to puncture young shoots. Control: Handpicking or DDT.

6. Grasshoppers. Control: Dusting with arsenical compounds.

7. Cutworms. Control: DDT.

8. Slugs, snails, sowbugs and milipeds. Control: Baits.

## DISEASES.

1. Rust. Indicated by blisters and exposes dark brown powder—a mass of spores. Infested leaves should be removed and burned. Control: Fomate.
2. Mildew. It has white powdery appearance. Control: Sulphur dust or sprays.

**STAKING.** Individual stem should be supported with stake or by other means to hold the blooms upright.



# Culture for Bush or Garden Varieties

Under this heading come small Pompons, small Anemones, Singles and Hardy varieties. These varieties are most effective in the garden when grown low with as much growth as possible. This effect is easily obtained

by pinching off centers of all laterals three or four times up to 1st or 10th of August. This method will prevent plants from toppling too freely.

## Single Varieties – Daisy Type

### PRICE OF ROOTED CUTTINGS (Unless Quoted Otherwise)

Each .....	\$ .20
3 of One Name.....	.55
6 of One Name.....	1.00
12 of One Name.....	2.00

**BALLERINA.** Semi-double clear orchid pink. October 25. **Price: 25 cents each, \$2.50 per dozen.**

**BITTERSWEET.** Medium size semi-double flower in bittersweet red. November 1.

**CHRISTMAS STAR.** Scarlet red. Semi-double flower for December.

**CRIMSON CARNELIA.** Intense crimson red which is a sport of "Carnelia." Responds to disbudding very well. November 1. **Price: 35 cents each, \$3.50 per dozen.**

**FESTIVAL.** Outstanding new introduction in reddish bronze daisy class. Rigid upright grower. November 15. **Price: 25 cents each, \$2.50 per dozen.**

**GINNY LEE.** As in the illustration, this is a true daisy type. Color is flesh pink at times and pure white at another. October 25.

**GRETCHEN PIPER.** A brilliant yellow flower with a double row of ray petals. October 15.

**JEAN.** Pure white large flowers. October 20.

**MABEL SEYMOUR.** Another lovely large size flower in white. October 20.

**MASON'S RED.** A red sport of "Mason's Bronze." Bronzy red broad petals. October 20.

**MASON'S YELLOW.** Clear yellow flower that responds well to disbudding. November 20.

**MELBA.** A semi-double orange bronze decorative type almost feathery in appearance. Lovely when disbudded. November 1.

**MERRYMAKER.** Crimson red single for Christmas season. **Price: 25 cents each, \$2.50 per dozen.**

**RADIANT.** A bright red daisy about 3 inches in diameter. Beautiful even when it fades to orange bronze long after full maturity. November 5.

**ROYAL ROBE.** (#2) One of our 1951 introductions. A wine red daisy type flower bordering toward purple. November 10. **Price: 25 cents each, \$2.50 per dozen.**

**STARBRIGHT.** Large size golden yellow flower. Full bloom by October 15. **Price: 25 cents each, \$2.50 per dozen.**



GINNY LEE

**WHITE VALENCIA.** Beautiful white sport of "Valencia." November 15. **Price: 25 cents each, \$2.50 per dozen.**

### How to Reach Sunnyslope 'Mum Gardens

From Long Beach and South: North on Lakewood-Rosemead Blvd. (Highway 19) to Huntington Drive. Turn left on Huntington Drive to our Nursery.

From Hollywood and North: Take Colorado Blvd. through Glendale, Eagle Rock and Pasadena to San Gabriel Blvd. Turn South on San Gabriel Blvd. to Huntington Drive. Our Nursery is near the Southeast corner of the intersection.

From Riverside and Pomona Districts: Take Foothill Blvd. (Highway 66) to Huntington Drive at Arcadia. Follow West on Huntington Drive to our Nursery.



# ANEMONE SECTION

## PRICE OF ROOTED CUTTINGS (Unless Quoted Otherwise)

Each .....	\$ .20
3 of One Name .....	.55
6 of One Name .....	1.00
12 of One Name .....	2.00

Anemone flowering varieties have large, high, neatly formed disc or cushion florets and regularly arranged ray petals of various lengths. These varieties should be disbudded after a bush is developed in order to obtain more perfect flowers. Varieties not to be disbudded are so stated.

### BRONZE

**BRONZE FRIEDA.** Sport of "Frieda." Color is buff-bronze with cushion of yellow. November 1. (See illustration of "Frieda" below.)

**BRONZE TUXEDO.** Apricot bronze sport of "Tuxedo." November 1. **Price: 25 cents each, \$2.50 per dozen.** (See illustration of Tuxedo.)

**CAPTIVATION.** Large size flower of mahogany-rose ray petals and cushion of reddish bronze. November 10. **Price: 25 cents each, \$2.50 per dozen.**

**ESTRELLITA.** A buff-bronze throughout. Conspicuous because of its extra large cushion. November 5.

**ROLINDA.** Reddish bronze flower with a low cushion. November 20.

### PINK

**BEAUTIFUL LADY.** Bright shade of lavender pink with a creamy white center. Most attractive when disbudded. November 20. **Price: 25 cents each, \$2.50 per dozen.**

**BETTY ROSE.** Clear pink ray petals with cushion of lighter pink. Equally as beautiful in sprays. October 25.



FRIEDA



F. S. PARKS

**DORIS LOUISE.** Deep rose pink sport of "Frieda." The cushion is yellow. November 5. (See illustration of "Frieda.")

**ELIZABETH.** Light pink variety, similar in formation to "F. S. Parks." Best when disbudded. November 1.

**ENCHANTRESS.** Beautiful orchid pink ray petals with cushion of lighter shade of pink and soft yellow center. December 10.

**FRIEDA.** Ranging in color from deep shell pink to deep orchid pink in accordance with corresponding moderation of light intensity. Yellow cushion. November 1. (See illustration, lower left.)

**MRS. J. S. ROBERTS.** Imagine a beautiful shade of mauve and violet in a chrysanthemum! Here it is. Disbud this variety and you will have the largest anemone flowered mum yet grown to date. November 1. **Price: 35 cents each, \$3.50 per dozen.** (Color illustration on page 33.)

**ORCHID BEAUTY.** A medium size orchid pink flower with prominently conspicuous cushion of yellow. November 10.

**ROSE MADDER.** Has extra large cushion center surrounded by double row of short pointed ray petals. Color is rose pink throughout. October 30.

**SYLVIA MARSHALL.** Lavender pink ray petals with light yellow cushion. Flower is of good size. November 1. **Price: 25 cents each, \$2.50 per dozen.**

**TUXEDO.** Exceptionally large flower of ever changing color from deep rose to light pink. The tufted cushion is unusually large. November 1. **Price: 25 cents each, \$2.50 per dozen.** (See illustration on page 33.)





MRS. J. S. ROBERTS

## WHITE

**BLANCHE.** Medium size flower of pure white petals with clear yellow cushion. November 1.

**C. D. WOLFE.** White ray petals and white cushion with a dark brown dot in the center. October 15.

**F. S. PARKS.** Especially large when disbudded. Both the ray petals and cushion florets are of glistening white. November 1. **Price: 25 cents each, \$2.50 per dozen.** (Illustration on page 32.)

**SILVER QUEEN.** (White Beautiful Lady.) Both ray and cushion petals are pure white. November 10. **Price: 25 cents each, \$2.50 per dozen.**

**SINCERITY.** Short white ray petals with very prominent, almost globular, white cushion. Best when disbudded. October 15.

**SUROKU.** Small button anemone variety composed of white ray petals and a yellow cushion. Not to be disbudded. October 20.

**WHITE NORMA.** The ray petals are white while the cushion florets are yellow. November 1.

## RED

**CRIMSON GLOW.** Crimson maroon ray petals with large crimson cushion. November 28.

**MATADOR.** Has attractive brilliant red petals with rich garnet cushion. Outstanding when disbudded. November 20. **Price: 25 cents each, \$2.50 per dozen.**

**MURAT.** Garnet red throughout with glints of gold in the cushion florets. Not to be disbudded. November 10.

**THE TITAN.** Similar to "Matador." The ray petals are scarlet crimson and the cushion of bronzy red. November 5.

## YELLOW

**CITRUS QUEEN.** Large flowering anemone variety of clear yellow throughout. One of the largest when disbudded. November 5.

**GLEAM.** A rich golden yellow variety in full bloom around December 10.

**LONG ISLAND BEAUTY YELLOW.** Clear yellow with deep yellow well formed cushion center. November 1. **Price: 25 cents each, \$2.50 per dozen.**

**SUNRAY.** Spray flowers in rich golden yellow throughout. Not to be disbudded. October 25.

**YELLOW ESTRELLITA.** A bright yellow sport of "Estrellita." Produces uniform high quality flowers when disbudded. November 25.

**YELLOW SINCERITY.** Sport of "Sincerity." Clear yellow throughout. Very popular. October 20.

## INDEX OF CONTENTS ON PAGES 24 AND 25



TUXEDO



# Hardy Varieties

These varieties are especially recommended for regions where early frost prevails, as they possess hardy, early flowering qualities. Blooming dates, September 1 to October 20.

## PRICE OF ROOTED CUTTINGS (Unless Quoted Otherwise)

Each .....	\$ .25
3 of One Name.....	.70
6 of One Name.....	1.25
12 of One Name.....	2.50

**ALLEGRO.** A shrimp pink suffused with coppery salmon. October 10. (Illustration below, left.)

**AVALANCHE.** Ranks high in the class of weather resistant whites. The clean, well branching sprays carry a load of ivory white flowers around September 10.

**AVIATOR.** Coppery-bronze flowers massed on a very vigorous, easy growing, well developed plant. October 10.

**BETTY.** Lovely apple blossom pink with deep rose center. October 10.

**BOKHARA.** The color is a blending of rosy crimson and wine shades. Wonderful for cut flowers. October 10.

**BURMA.** A glistening bronze flower with undertone of copper and soft pink. October 10.

**CARNIVAL.** This variety has blooms with bronze, red and golden bronze mixed together. October 10.

**CHARLES NYE.** Pure yellow clustered flower on long, sturdy stems blooming profusely around October 1.

**CHIPPEWA.** Large decorative aster purple flower which is very attractive in the garden, for potted specimen, also as cut flowers. September 25 on.

**COPPELIA.** (English Variety.) Large decorative flower of rich Indian-red and bronze undertone. October 15.

**COURAGEOUS.** Crimson decorative type holding its color very well. Attractive as cut flower as well as for garden color. October 5.

**CYDONIA.** Vivid, fiery, orange-red double flower with a slight bronze overcast. Multiple sprays produce profusion of flowers two inches across which glow like burning embers. October 5.

**GOLD MINE.** Gleaming yellow flower of good size which develops into beautiful sprays. October 10.



ALLEGRO



TIFFANY ROSE

**HONEYCOMB.** Small perfectly formed spray variety of intense golden yellow. A vigorous and productive variety. September 25.

**HUNTSMAN.** Vivid scarlet orange with a beautiful shade of walnut bronze overcast. Full centreed flower about three inches across. October 10.

**INDIANA.** (English.) Large, double, rich bronze flower. Full bloom in early October.

**INDIAN SUMMER.** Large informal flower of orange bronze which is excellent for cut flowers. October 10.

**JEAN TREADWAY.** Pink pompon flower with a dark center. Decorative flower in mass of color. About October 10.

**KARL A. REICHE.** Compact little pompon in tone combination of Bengal rose, red, mauve and strawberry. Late September.

**LAVENDER LADY.** Handsome outdoor hardy type of true lavender. Strong, free flowering excellent variety. Late September. (See illustration, back cover.)

**LOLA.** Large sized, double spray flower of glittering gold which is a good cut flower variety. Early October.

**OLIVE LONGLAND.** A beautiful blend of apricot and salmon bronze—hardy and satisfactory flower.

**PEPITA.** Charming creamy white button with a dark eye at first. Prolific bloomer on a bush about 2 feet high. September 15.

**PINK RADIANCE.** Luminous pink flower almost three inches in diameter. A lovely free blooming variety. October 10.

**RAPTURE.** Glorious blend of orange and carmine—very branching variety making unusually beautiful effect in the fall garden. October 15.

**RED CLOUD.** Wealth of bright crimson pompon about 2 inches across on a beautiful bush about 30 inches high. Early October.

**RED GOLD.** Bronzy red medium size flower that is not only attractive but also extremely productive. September 15.

**RED RIDING HOOD.** Double pompon flower about 3½ inches in diameter of iridescent bright red. October 10.

**ROSITA.** Persian rose pink button type flower. Dr. Kraus' stunning introduction. October 10.

**RUBY POMPON.** Ruby crimson. Well rounded pompon produced prolifically on beautiful, well formed bush. Early October.

**SALMON FREIDA.** Lovely salmon pink flowers. Not to be confused with another "Frieda" and its sports which are anemone flowered. October 1.

**SEPTEMBER DAWN.** Double pink flower about 3 inches in diameter. Hardy, vigorous, and extremely free flowering. September 15.



**SEQUOIA.** An exquisite rich mellow amber in color—most outstanding. October 10.

**SYMPHONY.** A blend of mauve, coppery pink and soft lavender. Flowers are large and fully double. October 10.

**TIFFANY ROSE.** Fully double, deep rose flowers of decorative type pom with a faint undertone of cream. October 10. (Illustration on page 34, lower right.)

**WHITE WONDER.** A beautiful spray flower in creamy white which turns into pure white when in full bloom. Tall grower. October 10.

**YELLOW AVALANCHE.** A soft yellow sport of "Avalanche." Most worthy addition to the Hardy class. September 10.

## Large Flowering Exhibition Varieties

Since size is the prime factor in this classification, varieties listed in this group have the largest blooms. Many varieties will grow taller than the regular commercial varieties requiring much heavier staking. They also require wider spacing when planted than other varieties for proper aeration and adequate nutrient requirement.

### PRICE OF ROOTED CUTTINGS (Unless Quoted Otherwise)

East .....	\$ .25
3 of One Name .....	.70
6 of One Name .....	1.25
12 of One Name .....	2.50

**APPERT.** Large incurved flower in a strikingly beautiful deep orange. Height medium. November 1. **Price: 50 cents each, \$5.00 per dozen.**

**ARIEL.** Large globular flower in pure white at maturity, though a slight trace of pink may be seen at first. Has dark green foliage. Height medium. November 1. **Price: 35 cents each, \$3.50 per dozen.** (Illustration on right.)

**ARMISTICE DAY.** A reflexed type flower. Bright crimson red and gold reverse. Height medium. November 10.

**BEN LEIGHTON.** Deep wine red with a shade of lighter red on the outside of the petals. Large size flower maturing into globular shape when in full bloom. Very outstanding. Medium height. October 15. **Price: 35 cents each, \$3.50 per dozen.**

**BEN TASHIMA.** This splendid flower has tubulated petals of purplish mauve and a deeper purple at the opening along the tip. A full centered flower. Height medium. November 10. (Illustration on page 37.)

**BIRMINGHAM.** Dazzling bronzy crimson with a reverse side of golden color. Incurved. Height medium. November 5. **Price: 50 cents each, \$5.00 per dozen.**

**CLARA TRUEMAN.** Beautiful bright red with gold reverse. Though not a full centered flower at maturity, its immenseness will attract great attention. Height tall. October 25.

**CONQUEST.** Perhaps this is the largest in the incurved bronze class. Deep bronze. Height tall. October 25. **Price: 35 cents each, \$3.50 per dozen.**

**CORONATION PINK.** A true reflexed type exhibition flower of large size. Petals are long and almost feathery. Equally as attractive when not disbudded. Lovely shade of pink as in the color illustration on page 41. Height medium. October 20. **Price 35 cents each, \$3.50 per dozen.**



ARIEL

**COUNTRY GENTLEMAN.** A clear yellow sport of "Country Maiden." Truly a magnificent flower with beautiful wide healthy foliage. Height short to medium. October 25. **Price: 50 cents each, \$5.00 per dozen.** (Illustration in color on page 36.)

**COUNTRY MAIDEN.** Compact incurved flower in apricot orange. Has broad petals forming a perfectly globular flower at full maturity. Lovely foliage and stem. Height short to medium. October 25. (Refer to color illustration of "Country Gentleman.")

**DAME ENID LYONS.** A lovely creamy white, perfectly formed, large exhibition flower from Australia. Has beautiful foliage, too. Height medium. October 15. **Price: 50 cents each, \$5.00 per dozen.**

**DR. J. M. INGLIS.** A rich wine red Giant exhibition flower with silver reverse—a color similar to "Grace Sturgis." Loosely incurved. Tall grower. November 1. **Price: 35 cents each, \$3.50 per dozen.**

**ELEGANCE.** Pure white exhibition flower equal in size to the "Turners" and "Pocketts." Very full centered and as a consequence, retention of terminal bud is preferred. Height medium. November 1. (Illustration on page 38.)





BEN LEIGHTON



GRACE STURGIS



COUNTRY  
GENTLEMAN





PHILIP KAY



BEN TASHIMA

WILLA TEMPLIN





**ELEGANCE**

**ELEGANCE-(TOTTY'S).** A beautiful soft shade of pink, intensifying towards the center. Truly, this flower will stand out most elegantly no matter where it is exhibited. Height medium. October 25. **Price: 50 cents each, \$5.00 per dozen.** (Illustration in color on page 40.)

**FAUST.** A broad petalled reflexed type. Unique flower in reddish bronze with gold reverse. Some will develop flowers which are a beautiful shade of buff bronze. Height short. October 30. **Price: 50 cents each, \$5.00 per dozen.**

**FERN EDWARDS.** A beautiful lavender pink giant size flower equal in size to the "Turners." Extremely satisfactory, easily grown variety. Height medium. October 25. **Price: 50 cents each, \$5.00 per dozen.** (See color illustration, front cover.)

**GRACE STURGIS.** A rich wine red exhibition flower with pinkish silver reverse. Produces lovely large semi-incurved flower on stiff stem supported with beautiful



**MARIE MILLER**



**LILLIAN FOLTZ**

green foliage. Height tall. November 1. **Price: 50 cents each, \$5.00 per dozen.** (Color illustration on page 36.)

**GREER GARSON.** Soft pink semi-reflexed in flower. Has lovely foliage, too. Height tall. October 25. (See illustration of "Stromness.")

**GWEN PATTON.** Most attractive globular flower in pink. Full centered and a good keeper. Height medium. October 20. (See color illustration on page 40.)



**MASUMI**





**MISS FRANCES LOWE**

**HARVEST MOON.** Bright yellow semi-incurved exhibition flower of enormous size. Take second crown or terminal bud for best result. Height medium. October 30. **Price: 50 cents each, \$5.00 per dozen.**

**IZALCO.** A perfectly globular incurved flower of medium size. Inside of the petal is rich wine red and the outside lilac rose. A welcome addition to the early flowering class. Height medium. October 15. **Price: 50 cents each, \$5.00 per dozen.**

**JEAN ELIZABETH.** White sport of "Orchid Queen." Identical to its parent otherwise. The premature brown eye appears to accentuate its attractiveness even more. Height tall. October 25. **Price: 35 cents each, \$3.50 per dozen.**



**MRS. HARLEY A. SILL**



**MRS. MARGARET GILLETTE**

**LA FRANCE.** Large globular shaped silvery mauve flower mounted on a stiff stem. Inside of the petal is a rich Amaranth purple. Height medium. October 10. **Price: 50 cents each, \$5.00 per dozen.**

**LILLIAN FOLTZ.** Tightly incurved flower of large size. Soft clear yellow at maturity, while it appears almost chartreuse when first open. Height medium. October 25. (See illustration on page 38.)

**LOUISA POCKETT.** Purest white and together with the "Turner" varieties is probably the most widely grown flower for exhibition purposes because of its immenseness. Height tall. November 1. **Price: 50 cents each, \$5.00 per dozen.** (Illustration on page 40.)

**MARIE MILLER.** Deep yellow, incurved flower. Has splendid foliage and stem. Height medium. November 5. (Illustration on page 38.)



**MRS. RUSSELL COMPTON**





**ELEGANCE "TOTTY"**

**MASUMI.** Beautiful shade of orchid pink. When the bud begins to open, the long tubulated lower petals droop like the spidery type, but filling gradually completely to the top, resulting in a perfectly globular flower of good size. Height tall. November 1. (See illustration on page 38.)

**MIKADO (IMPROVED).** A new introduction. An incurved flower, crimson red on the inside of the petal with gold reverse. Full centered. Height medium. October 25. Price: 50 cents each, \$5.00 per dozen.



**POCKETT VARIETIES**

**MISS FRANCIS LOWE.** This large incurved flower has the most unusual color—the closest description being a crushed raspberry bronze. Has good foliage and sturdy stem. Height tall. November 1. Price: 50 cents each, \$5.00 per dozen. (Illustration on page 39.)

**MRS. HARLEY S. SILL.** Large rich wine red flower with mauve reverse. Though not a full centered flower, always an attraction at the show. Height tall. October 15. (Illustration on page 39.)

**GWEN PATTON**



**MRS. IRENE SHEFFLEY**







STEPHANIE



SUNNYSLOPE BRONZE



CORONATION PINK





**VICTORY**

**MRS. IRENE SHEFFLEY.** This deep red with gold reverse exhibition flower matures into perfectly spherical blossom around November 1. Very solid substance with remarkable lasting qualities. Height medium. **Price: 35 cents each, \$3.50 per dozen.** (Illustrated on page 40.)



**STROMNESS**

**MRS. MARGARET GILLETTE.** Reflexed type flower very similar to "Armistice Day." Dazzling red with gold reverse. Medium height. November 10. **Price: 35 cents each, \$3.50 per dozen.** (Illustration on page 39.)

**MRS. RUSSELL COMPTON.** Luminous ox-blood red with buff reverse. Large flower with broad reflexed petals. Strikingly beautiful flower. Height medium. October 15. **Price: 50 cents each, \$5.00 per dozen.** (Illustration on page 39.)

**MUTO'S CRIMSON.** Sport of "Armistice Day." Deep crimson maroon with gold reverse. A splendid new addition. Height medium. November 10. **Price 35 cents each, \$3.50 per dozen.** (Color illustration back cover.)

**NAGIRROC.** Golden bronze large flower of reflexed type. The petals are very wide and long, almost feathery in appearance. Height medium. October 20.

**OHGON.** Meaning golden yellow. This large size flower is spherical in form and full centered. Height medium. November 1.

**ORANGE BOWL.** (Sunnyslope-1950.) ▲ reflexed flower of large size. The color is a most beautiful shade of warm bronze with an orange overcast. Height tall. October 10. **Price: 50 cents each, \$5.00 per dozen.** (Illustrated in color on back cover.)

**PHILIP KAY.** Tightly incurved globular flower of large size. True lavender pink. Height medium. November 1. **Price: 50 cents each, \$5.00 per dozen.** (Color illustration on page 37.)

**ROBERT EDDIE.** Large reflexed flower in a beautiful shade of light amaranth rose. Height medium. November 1. **Price: 50 cents each, \$5.00 per dozen.**

**STEPHANIE.** An exquisite flower of clear fuschia purple with silvery pink reverse. Petals are loosely incurved and the pointed silvery pink tips harmonize beautifully with the deeper color of the inside. Height medium. Matures October 25. **Price: 75 cents each, \$7.50 per dozen.** (Color illustration page 41.)



**WATANABE**



**STROMNESS.** A snow white sport of "Greer Garson." Reflexed flower with a most intriguing central swirl. Handsome grower. Height medium. October 25. (Illustrated on page 42.)

**SUNNYSLOPE BRONZE.** An excellent large ball shaped flower of an Old Gold Bronze. Tightly incurved and an excellent keeper. Height medium. November 1. **Price: 35 cents each, \$3.50 per dozen.** (Color illustration on page 41.)

**THOS. W. POCKETT IMPROVED.** An enormous flower of deep pink and silvery pink on the reverse side of the petals. Tips of the petals are incurving. Height tall. November 1. **Price: 50 cents each, \$5.00 per dozen.**

**TURNER BRONZE.** Large loosely incurved true exhibition flower in light bronze. Sport of famous "William Turner." Height medium. October 25.

**TURNER PINK.** Another sport of "William Turner." Light pink in color. Height medium. October 25.

**VICTORY.** Incurved raspberry red. Globular in formation. Height tall. November 1. **Price: 35 cents each, \$3.50 per dozen.** (Illustration on page 42.)

**WATANABE.** This new addition has completely eliminated the old "Yellow Ambassador" from our collection in the early flowering class. This flower is more perfectly formed, more easily cultivated, straighter stem, more lasting and probably larger than the latter. A clear yellow of "Major Bonnaillon" tone, this variety should be included in the must list this year. Height medium. In full bloom by October 5. **Price: \$1.00 each, \$10.00 per dozen.** (See illustration on page 42.)

**WILLA TEMPLIN.** A ravishing golden bronze flower with large tubulated petals of hooked spoon tips. Height medium. October 20. **Price: 35 cents each, \$3.50 per dozen.** (Color illustration on page 37.)

**WILLIAM TURNER.** White. The original Turner variety. Well known flower grown throughout the world where chrysanthemums are cultivated. Largest among the exhibition blooms. Height medium. November 1.

**YELLOW POCKETT.** A light yellow sport of "Louisa Pockett." Together with its parent, this variety is a favorite of all flower show exhibitors. Height tall. October 30. **Price: 35 cents each, \$3.50 per dozen.** (Illustrated on page 40.)

**YELLOW TURNER.** A light yellow sport of "Turner" variety. Identical to other sports except in color. Height medium. October 25.

## COMMERCIAL AND EXHIBITION COLLECTION . . . H

### 10 Earliest Flowering Varieties—Oct. 1-15

Blazing Gold	Ben Leighton	Butterball	Christina
Emperor	Gold Lode	Hilda Bergen	
Maj. Edw. Bowes	Quaker Maid	Mrs. Russell Compton	

Catalog Price.....\$2.45

Combination offer.....\$2.00

## COLLECTION . . . I

### 8 Early Midseason Varieties—Oct. 15-25

Black Hawk	Dame Enid Lyons	Elegance Totty
Fern Edwards	White Chief	William Turner
Yellow Chief	Yellow Turner	

Catalog Price.....\$2.60

Combination offer.....\$2.00

## COLLECTION . . . J

### 10 Midseason Varieties—Oct. 25-Nov. 5

Ariel	Country Maiden	Country Gentleman
Garnet King	Harvard	Marie Miller
Miss Helen Frick	Muto's Crimson	Sterling

Catalog Price.....\$2.90

Combination offer.....\$2.50

# Annual Chrysanthemum and Carnation Show

The picture below is a partial view of the Chrysanthemum show we hold each year during October, November, and December, which you are cordially invited to attend.

Our gardens will be open throughout the year for Carnation displays.



We carry over 1,200 varieties of Chrysanthemums and over 150 varieties of Carnations.



# Giant Ever Blooming Carnations

Established Plants in "Vita-bands"

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**ANNA**

## PINK SHADES

**C. W. PINK.** Beautiful medium pink. Large, full centered flower of good quality and firm calyx. **30 cents each.**

**DONNA LEE.** Lovely deep salmon sport of "Pink Spectrum Supreme." Full centered, sound calyx, and strong stem. **40 cents each.**

**IDA.** Another outstanding variety in salmon pink. Flowers are large, productive, and full centered. Slightly fringed and does not split with us. **30 cents each.**

**JOHN BRIRY.** A high quality flower in deep pink. Firm calyx and long strong stem. **30 cents each.** (See color illustration.)

**NETTA.** Fragrant light pink—that popular baby pink. Fully double with sound calyx. **40 cents each.**

**SIDNEY LITTLEFIELD.** Brightest deep pink. Large flowers with sound calyx. Exceptionally healthy plant with broad, dark green foliage. **50 cents each.**

**THELMA.** Salmon pink. Broad smooth petals. Excellent grower. **30 cents each.**

## LAVENDER AND ORCHID SHADES

**CATTLEA MAUVE.** A clear orchid color. Fully double, largest flower. Some splitting occurs but not to a serious extent. **75 cents each.**

**LOUISE.** Clear lavender pink—full centered flower. **50 cents each.** (See color illustration, page 45.)

**ORCHID BEAUTY.** Deep orchid lavender with lighter edging. Firm calyces and strong stems. **50 cents each, \$5.00 per dozen.** (See color illustration, right.)

## RED, CRIMSON AND PURPLE VARIETIES

**BLAZE.** Best scarlet red. Fully double flower with non-splitting calyx. **40 cents each.**

**CALIFORNIA.** Bright purple. Excellent garden variety. **40 cents each.**

**CRIMSON GLORY.** Bright crimson. Non-splitting calyx and extra long stems. **40 cents each.**

**CRIMSON KING.** Rich crimson maroon with a slight orchid edging at times. Sound calyx. **40 cents each.**

**KLUG'S CRIMSON.** Deepest crimson maroon. Non-splitting calyx. Medium size flowers but productive. **40 cents each.**

**VICTORY RED.** Dazzling scarlet red. Smooth edging. **40 cents each.**

## WHITE VARIETIES

**ARUNDEL.** Superbly fragrant, pure white variety. Good production throughout the year. Sound calyx. **40 cents each.**

**NORTHLAND.** Outstanding among the whites. Giant size, fully double, and wonderfully scented. In addition, has strong calyx and the general growing habit is ideal. **40 cents each.**

**SHANGRI-LA.** Typical American carnation with fringed edges. Sweet scented, large flower. Excellent production of high quality blooms throughout the year. **40 cents.**

**WHITE BRIRY.** High quality market flower with long stiff stems. **30 cents each.**



**ORCHID BEAUTY**





Top Three (from Left to Right):  
**COLORADO.** Yellow variegated.  
**JOHN BRIRY.** Dark pink.  
**GEORGINA.** White variegated.

Center Three (from Left to Right):  
**VICTORY RED.** Scarlet.  
**ARMY NURSE,** Sport of Pelargonium.  
 Maroon with white edges.  
**LOUISE.** Lavender.

Bottom (Center):  
**DANCING GIRL.** Gold and red variegated.



## YELLOW AND VARIEGATED

**COLORADO.** Yellow ground with purple penciling and thin marking surrounding each petal. **30 cents each.** (See color illustration, page 45.)

**MILLER'S YELLOW.** This is the best in the clear yellow varieties. In fact, this is the **ONLY** variety in this class grown for cut flower production. Full centered, firm calyx, and strong stems. **40 cents each.**

**NAPIER'S CHROME.** A stunning shade of maize yellow. A faint penciling of pink appears on some of the petals particularly during the winter months. An interesting English variety. **\$1.00 each.**

## NOVELTY AND VARIEGATED

**ANNA.** Large full centered flower. Apricot ground with lovely deep rose marking. Non-splitting calyces and the production is excellent. **50 cents each.** (Color illustration on page 44.)

**ARMY NURSE.** Deep colored sport of "Pelargonium," replacing the latter. Rich crimson maroon with orchid edging. Charmingly scented. **50 cents each.** (Refer to illustration in color, page 45.)

**BARBARA COOK.** (Sunnyslope-1951. Golden Wonder X Tom Gabriel.) A multiple petalled flower of solid substance. Calyx is bell-shaped and non-splitting. Color is a deep rose-pink red with carmine marking. **\$2.00 each.** (Supply limited.)

**BETSY.** A faint pink ground, almost white, with maroon marking, edging, and penciling. Productive variety of medium size flowers with non-splitting calyces. **30 cents each.**

**BEVERLY.** Carmine with white edging. Exceptionally productive nature of this variety more than compensates the size deficiency when compared with other giant flowers. Calyx is non-splitting. **30 cents each.**

**CIRRUS CLOUD.** Light pink ground color with irregular size rose pink marking. Attractive garden variety. **30 cents.**

**CONNECTICUT.** Pure white ground with purple markings and stripes. **30 cents each.** (See illustration below.)

**DANCING GIRL.** Apricot ground with red markings and splashes, **40 cents each.** (Refer to color illustration, page 45.)



CONNECTICUT



NORTHLAND

**GEORGINA.** White ground with red pencil stripes—a variety noted for its non-splitting quality. **30 cents each.** (Refer to color illustration, page 45.)

**IMPRESSION.** (Sunnyslope-1951. Parent: Harlequin.) White ground with ravishing pencil stripes and edgings of rich purple. So named because of more vivid variegation found on the reverse side of the flower appearing as though purple stripes have been "impressed" completely through each petal. Outstanding novelty flower with sound calyx. **Price: \$1.00 each.** (Supply limited.)

**LA FIESTA.** Unique flower of rose pink ground color with maroon pencillings, markings and numerous minute specks throughout the petals. Attractive non-splitting flower. **40 cents each.**

**MISSOURI.** Pure white ground with intense markings and stripes of deep claret similar to our "Connecticut." **40 cents each.**

**NANCY TASHIMA.** The color is a combination of a variable intensity of carmine red and pure white. But in some flowers, the carmine becomes so dominant that the white appears only as splashes. **50 cents each.**

**ORANGE GEORGINA.** Orange ground with markings of deep pink. Sport of "Georgina" but with a general color appearance of "Dancing Girl" in the illustration. **30 cents each.**

**SPORT OF OLIVETTE.** Charmingly fragrant full centered flower. White variegated with rose pink stripes. Non-splitting calyces throughout the year. **40 cents each.**

## SEE OUR CARNATION DISPLAY

100 more other varieties included

We have on display blooms of the varieties described here as well as approximately 100 others including many of our introductions which are being tested for future dissemination and those of limited stock plants. The display is open to the public every day of the year.



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NAME OF VARIETY

QUANTITY

USE REVERSE SIDE FOR ADDITIONAL PLANTS



# Giant Flower Carnation

## Field-Grown . . . Hardy Rugged Plants

### Cultural Directions for Carnations

Easy to Grow if These Simple Rules Are Followed

**PREPARATION OF SOIL.** The Carnation will tolerate wide range of soil condition and acidity, but it must have good drainage. The PH if the soil is best between 6.0 and 7.0. The plant requires plenty of organic matter, so liberal amounts of well rotted manure are spaded into the soil. In addition to this, about 5 lbs. of either bonemeal or superphosphate is required per 100 square feet of ground. If an extreme acid condition is encountered, a light sprinkling of agricultural lime or wood ashes would be beneficial.

**TREATMENT OF PURCHASED PLANTS.** Our plants come in "Vita-bands" as in the illustration. When they are received, the bands are removed and set out with the soil around the roots intact. Carnations like full sunlight and young plants should be spaced about 15 inches apart. They should be watered thoroughly after planting, but no further watering is required until the surface shows signs of drying.

**STOPPING.** Plants are first topped when they are three or four inches high. The object of this topping is to encourage young plants to become bushy around the base. The best method is to pull out the center with the right hand while gripping the plant firmly with the left. More stems will arise by this procedure than when the top is merely broken off. Centers of new growths are further topped occasionally until a bushy plant is assured.

**STAKING.** Almost simultaneously with the last topping, the plants should be provided with some sort of support. Individual wire loop supports are most commonly used.

**DISBUDDING.** When buds become sufficiently large, all side buds are removed, thus leaving a single bud to a stem.

**WATERING.** Very wet or very dry soil conditons are both detrimental to support a vigorous, healthy growth of Carnations. Although in Winter they will stand being kept fairly dry much better than on the wet side.

**FEEDING.** Since the Carnation is an ever-blooming flower, feeding is a year around procedure after its final

topping. Nitrogen stimulates stem and leaf growth; phosphoric acid and potash build up sturdy, firm growth of plants with large flowers, good substance, and good color. For this reason, application of complete fertilizers is recommended at the rate of between 2 and 4 pounds per 100 square feet at every two months intervals.

### DISEASE CONTROL.

1. Rust. Easily controlled with Fermate, Bordeaux mixture, or Botano dust.
2. Septoria leafspot causes purple blotches on the leaves. Same control as for rust.
3. Yellows and Mosaics are virus diseases. Since aphids spread viruses, they should be controlled.

### INSECT CONTROL.

1. Aphids and Red Spider. Controlled with sprays such as "Vapotone," etc.
2. Thrips. Causes white spots on flowers and may cause tips of shoots to stick together. Controlled with DDT dust or sprays.

### Propagation of New Plants

In order to grow Carnations successfully, a person must start propagating new plants from cuttings some time or another. Best cuttings are produced about mid-way on a flowering stem, as indicated (A and B) in the illustration. The length of the cutting should be about three to four inches long. The growth (C) is allowed to grow into a flowering stem.

The procedure of taking slips or cuttings is rather unique in Carnations. The ones shown in the illustration are called "heel" cuttings because the shoots are severed by the "heel" or node of a main stem. The cutting, and leaf surround it, are held firmly and severed by outward-downward pull (see first part in the illustration).

**TRIMMING OF FOLIAGE.** According to pathologists, the plant food is manufactured in the leaves and trimming reduces the area in which food is manufactured. Also, essential plant elements must be used to heal any wound. Furthermore, all wounds will become a source of infection; therefore, only leaves of the cuttings coming in contact with the rooting media are removed.

**ROOTING AIDS.** Use Rootone or Hormodin No. 1 according to directions. Do not allow cuttings to become wilted. Submerging in water is one way of refreshing wilted cuttings.

**ROOTING MEDIA.** Use either clean medium coarse sand or "Vermiculite." The latter is better.

**CARE OF CUTTINGS.** Take an ordinary plant flat, fill it with "Vermiculite," and level it off. Then soak it with water thoroughly and pound the surface firmly with a 2x3 piece of board. Make a straight groove about one inch deep with a small mason's trowel or flat blade of some sort. Then place the cuttings about one-half inch apart. When a row is completed, tap the base of the cuttings firmly again with the board. Then another groove is made about three inches away. Thus, an ordinary flat holds about 200 cuttings. They are thoroughly watered overhead when finished and then shaded for a while from direct sunlight, but not too heavily. Remember always that light is necessary for normal function of a plant. Heavy draft is also detrimental. It dries off the foliage too much.

It normally takes about four weeks to root a Carnation cutting when the temperature is right. When roots are about one-half to one inch long, the plants need transplanting. Young cuttings are transplanted in "Vita-Bands," using regular sandy loam as the potting soil. No soil mixture is required when "Vita Bands" are employed, as these bands are chemically treated to nourish young plants. In about six to eight weeks, the plant is ready to set out.







ORANGE BOWL



MUTO'S CRIMSON

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LAVENDER LADY

